# **Author Index**

Aaron, B. L., 324 Abt, A. B., 529 Adams, P. X., 287 Alexander, J. A., 504 Alexander, J. C., 526\* Alford, W. C., Jr., 502\* Alivizatos, P. A., 132 Allen, P., 192, 625 Alley, R. E., 196 Almond, C. H., 426\* Angaran, D. M., 307 Antman, K. H., 66 Arnold, M., 138, 559 Arom, K. V., 307 Azzolina, G., 413

Baffes, T. G., 558\* Bahnson, H. T., 115 Baillot, R., 612 Bains, M. S., 521 Balkas, C., 157 Barner, H. B., 408 Baumann, F. G., 287 Beattie, E. J., Jr., 521, 672\* Becker, A. E., 716 Bell, H. H., 559 Bender, H. W., Jr., 6, 58, 176 Bennett, E. V., Jr., 278, 728 Bennett, J. A., 477 Benson, M., 196 Bentall, H. H., 351 Bercot, M., 647 Bernatz, P. E., 684 Bircks, W., 56,\* 421,\* 645\* Biørnstad, P. G., 223 Blackstone, E. H., 338 Bodnar, E., 146 Bognolo, D. A., 595 Bonan, R., 612 Bone, D. K., 16, 427, 493 Bonvallet, J. C., 551\* Borman, J. B., 223 Boucek, R. J., Jr., 58 Boucher, C. A., 157 Bove, E. L., 466 Boyle, D., 446 Brenner, W. I., 444,\* 513,\* 580\*

Bull, A. P., 680 Bulterijs, A. H. K., 716 Burr, L. H., 625 Butler, J., 157

Cannon, D. J., 10 Catinella, F. P., 287 Causby, G., 471 Celemín, D., 714 Chaffin, J. S., 157 Chaitman, B. R., 612 Chidambaram, M., 265 Chiscano, A., 551\* Christianson, L., 702 Clark, R. E., 22, 64,\* 256\* Clark, S., 490 Clayton, P. D., 374 Cleland, J., 446 Clements, I. P., 706 Cleveland, R. J., 470, 476 Cohn, L. H., 482 Cohn, R. B., 572 Coles, J. G., 299 Collins, J. J., Jr., 482 Colvin, S. B., 333 Commin, P., 647 Conner, G. H., 461 Connolly, J. E., 201 Conti, C. R., 504 Cooley, D., 123\* Cooper, J. D., 373\* Corno, A., 716 Correll, N. A., 571\* Cosgrove, D. M., 608, 674 Cowley, M. J., 329 Cox, J. L., 550\* Craver, J. M., 16, 427, 493 Cunningham, J. N., Jr., 256,\* 287 Curtis, J. J., 536\*

Daggett, W. M., 157
Danielson, G. K., 396
Danilowicz, D., 333
Davis, M. V., 645\*
da Rosa, J. F. T., 477
DeBakey, M. E., 698
Del Campo, C., 108
DeLeon, S. Y., 586
DeLuca, F. G., 640
DeMeester, T. R., 225
Demos, N. J., 236\*
Derom, F., 536\*
DesLauriers, J., 570\*
Diehl, G. T., 674
Dieter, R. A., 690, \* 696\*

Dillon, M. L., 696\*
DiSesa, V. J., 482
Dobell, A. R. C., 1, 342
Dolan, W. V., 595
Douglas, J. S., 493
Dunkman, W. B., 435
Dunn, E. J., 176
Durán, C. G., 657\*
Duranceau, A., 235\*
Dyrda, I., 612

Ebert, P. A., 422 Edmunds, L. H., Jr., 96 Egloff, L., 117 Ehrenhaft, J. L., 184\* Eisen, A. A., 181 El-Baz, N., 564 Elleker, M. G., 181 Elliott, D. P., 296\* Estafanous, F. G., 608 Eyler, W. R., 553

Faber, L. P., 564
Faro, R. S., 564
Fauchet, M., 647
Fawzy, M. E., 698
Feldman, R. L., 504
Fell, S. C., 246\*
Fennell, W. M. P., 729
Fewel, J. G., 278
Finklea, J. F., 353
Fisk, R. L., 318
Flaherty, J. T., 249
Fleming, A. W., 664
Fosburg, R. G., 350
Fowler, B. N., 157
Freund, P., 515

Garcia L., J. V., 348 Gardner, T. J., 249 Gay, W. A., 426\* Gazzaniga, A. B., 186 Georgiopoulos, G., 647 Gerein, A. N., 625 Ghaswalla, D., 318 Ghattas, M., 608 Ghidoni, J. J., 278 Ghoneim, A. T. M., 166 Gibbons, J. A., 324 Gil Aguado, M., 714 Ginsberg, R. J., 258, 558,\* 570,\* 692 Gonzalez-Lavin, L., 277\* Gootman, N., 581 Gordon, D. F., 196

Gott, V. L., 515

Graeber, G. M., 664 Graham, J. M., 698 Greenstreet, R., 608 Grillo, H. C., 356 Grondin, C. M., 64\* Gross, A., 490 Gross, S. C., 553 Grover, F. L., 278 Grüntzig, A. R., 493 Guerraty, A. J., 132 Guilbeau, E. J., 318 Guiraudon, G., 551\* Guiteras Val, P., 612 Gupta, S., 513\* Guvendik, L., 383 Guyton, R. G., 493

Haberman, S., 146 Hairston, P., 471, 490 Hammon, J. W., Jr., 58 Hanley, F., 422 Hanna, N., 157 Harrison, M. R., 422 Hasan, S. S., 265 Hatcher, C. R., Jr., 16, 40, 276,\* 427, 473, 493 Head, H. D., 664 Henderson, R. D., 230, 247\* Henly, W. S., 604 Hernandez, J., 176 Hiebert, C. A., 444\* Hill, I. D., 337 Hoffman, W. S., 71 Holford, F. D., 435 Horak, J. K., 204

Iannone, L. A., 196 Idriss, F. S., 586 Ikeda, M., 590 Ilbawi, M. N., 586 Ilves, R., 692 Imamura, E., 710 Imamura, H., 594, 659 Inoue, T., 659 Ionescu, M. I., 166 Irarrazaval, M. J., 297\* Isom, O. W., 287, 333 Izukura, T., 590

Jacocks, M. A., 157 Jamieson, W. R. E., 65,\* 623,\* 625 Janusz, M. T., 625 Jensen, R., 374 Jensik, R., 564

July issue, pp 1-110; August issue, pp 111-124; September issue, pp 225-350; October issue, pp 351-478; November issue, pp 479-606; December issue, pp 607-748.

Broda, J. J., 46

Brodsky, J. B., 572 Brott, W. H., 664

Brown, T. M., 196

Bulkley, B. H., 249

Brown, H. S., 527,\* 645\*

<sup>\*</sup>Discussion.

# **Author Index**

Aaron, B. L., 324 Abt, A. B., 529 Adams, P. X., 287 Alexander, J. A., 504 Alexander, J. C., 526\* Alford, W. C., Jr., 502\* Alivizatos, P. A., 132 Allen, P., 192, 625 Alley, R. E., 196 Almond, C. H., 426\* Angaran, D. M., 307 Antman, K. H., 66 Arnold, M., 138, 559 Arom, K. V., 307 Azzolina, G., 413

Baffes, T. G., 558\* Bahnson, H. T., 115 Baillot, R., 612 Bains, M. S., 521 Balkas, C., 157 Barner, H. B., 408 Baumann, F. G., 287 Beattie, E. J., Jr., 521, 672\* Becker, A. E., 716 Bell, H. H., 559 Bender, H. W., Jr., 6, 58, 176 Bennett, E. V., Jr., 278, 728 Bennett, J. A., 477 Benson, M., 196 Bentall, H. H., 351 Bercot, M., 647 Bernatz, P. E., 684 Bircks, W., 56,\* 421,\* 645\* Biørnstad, P. G., 223 Blackstone, E. H., 338 Bodnar, E., 146 Bognolo, D. A., 595 Bonan, R., 612 Bone, D. K., 16, 427, 493 Bonvallet, J. C., 551\* Borman, J. B., 223 Boucek, R. J., Jr., 58 Boucher, C. A., 157 Bove, E. L., 466 Boyle, D., 446 Brenner, W. I., 444,\* 513,\* 580\*

Bull, A. P., 680 Bulterijs, A. H. K., 716 Burr, L. H., 625 Butler, J., 157

Cannon, D. J., 10 Catinella, F. P., 287 Causby, G., 471 Celemín, D., 714 Chaffin, J. S., 157 Chaitman, B. R., 612 Chidambaram, M., 265 Chiscano, A., 551\* Christianson, L., 702 Clark, R. E., 22, 64,\* 256\* Clark, S., 490 Clayton, P. D., 374 Cleland, J., 446 Clements, I. P., 706 Cleveland, R. J., 470, 476 Cohn, L. H., 482 Cohn, R. B., 572 Coles, J. G., 299 Collins, J. J., Jr., 482 Colvin, S. B., 333 Commin, P., 647 Conner, G. H., 461 Connolly, J. E., 201 Conti, C. R., 504 Cooley, D., 123\* Cooper, J. D., 373\* Corno, A., 716 Correll, N. A., 571\* Cosgrove, D. M., 608, 674 Cowley, M. J., 329 Cox, J. L., 550\* Craver, J. M., 16, 427, 493 Cunningham, J. N., Jr., 256,\* 287 Curtis, J. J., 536\*

Daggett, W. M., 157
Danielson, G. K., 396
Danilowicz, D., 333
Davis, M. V., 645\*
da Rosa, J. F. T., 477
DeBakey, M. E., 698
Del Campo, C., 108
DeLeon, S. Y., 586
DeLuca, F. G., 640
DeMeester, T. R., 225
Demos, N. J., 236\*
Derom, F., 536\*
DesLauriers, J., 570\*
Diehl, G. T., 674
Dieter, R. A., 690, \* 696\*

Dillon, M. L., 696\*
DiSesa, V. J., 482
Dobell, A. R. C., 1, 342
Dolan, W. V., 595
Douglas, J. S., 493
Dunkman, W. B., 435
Dunn, E. J., 176
Durán, C. G., 657\*
Duranceau, A., 235\*
Dyrda, I., 612

Ebert, P. A., 422 Edmunds, L. H., Jr., 96 Egloff, L., 117 Ehrenhaft, J. L., 184\* Eisen, A. A., 181 El-Baz, N., 564 Elleker, M. G., 181 Elliott, D. P., 296\* Estafanous, F. G., 608 Eyler, W. R., 553

Faber, L. P., 564
Faro, R. S., 564
Fauchet, M., 647
Fawzy, M. E., 698
Feldman, R. L., 504
Fell, S. C., 246\*
Fennell, W. M. P., 729
Fewel, J. G., 278
Finklea, J. F., 353
Fisk, R. L., 318
Flaherty, J. T., 249
Fleming, A. W., 664
Fosburg, R. G., 350
Fowler, B. N., 157
Freund, P., 515

Garcia L., J. V., 348 Gardner, T. J., 249 Gay, W. A., 426\* Gazzaniga, A. B., 186 Georgiopoulos, G., 647 Gerein, A. N., 625 Ghaswalla, D., 318 Ghattas, M., 608 Ghidoni, J. J., 278 Ghoneim, A. T. M., 166 Gibbons, J. A., 324 Gil Aguado, M., 714 Ginsberg, R. J., 258, 558,\* 570,\* 692 Gonzalez-Lavin, L., 277\* Gootman, N., 581 Gordon, D. F., 196

Gott, V. L., 515

Graeber, G. M., 664 Graham, J. M., 698 Greenstreet, R., 608 Grillo, H. C., 356 Grondin, C. M., 64\* Gross, A., 490 Gross, S. C., 553 Grover, F. L., 278 Grüntzig, A. R., 493 Guerraty, A. J., 132 Guilbeau, E. J., 318 Guiraudon, G., 551\* Guiteras Val, P., 612 Gupta, S., 513\* Guvendik, L., 383 Guyton, R. G., 493

Haberman, S., 146 Hairston, P., 471, 490 Hammon, J. W., Jr., 58 Hanley, F., 422 Hanna, N., 157 Harrison, M. R., 422 Hasan, S. S., 265 Hatcher, C. R., Jr., 16, 40, 276,\* 427, 473, 493 Head, H. D., 664 Henderson, R. D., 230, 247\* Henly, W. S., 604 Hernandez, J., 176 Hiebert, C. A., 444\* Hill, I. D., 337 Hoffman, W. S., 71 Holford, F. D., 435 Horak, J. K., 204

Iannone, L. A., 196 Idriss, F. S., 586 Ikeda, M., 590 Ilbawi, M. N., 586 Ilves, R., 692 Imamura, E., 710 Imamura, H., 594, 659 Inoue, T., 659 Ionescu, M. I., 166 Irarrazaval, M. J., 297\* Isom, O. W., 287, 333 Izukura, T., 590

Jacocks, M. A., 157 Jamieson, W. R. E., 65,\* 623,\* 625 Janusz, M. T., 625 Jensen, R., 374 Jensik, R., 564

July issue, pp 1-110; August issue, pp 111-124; September issue, pp 225-350; October issue, pp 351-478; November issue, pp 479-606; December issue, pp 607-748.

Broda, J. J., 46

Brodsky, J. B., 572 Brott, W. H., 664

Brown, T. M., 196

Bulkley, B. H., 249

Brown, H. S., 527,\* 645\*

<sup>\*</sup>Discussion.

Jones, E. L., 16, 427, 493 Josephson, M. E., 435

Kandrach, M., 16 Kang, J. W., 590 Karp, R. B., 388, 480 Kastl, D., 461 Kavey, R-E. W., 466 Kawada, K., 659 Kehoe, R. F., 538 Kelsen, D. P., 521 Kido, T., 590 Kiernan, P. D., 51 Killen, D. A., 559 King, S. B., III, 493 Kirklin, J. W., 388 Kirschner, P. A., 639\* Kirsh, M. M., 34, 207, 221 Klement, P., 299 Knauf, D. G., 504 Kongtahworn, C., 196 Kono, N., 659 Konyer, A., 46 Kopf, G. S., 457 Koster, J. K., 66, 482 Koyanagi, H., 710 Kugelmeier, J., 117 Kural, S., 647 Kvale, P. A., 553

LaBrosse, C., 504 Laks, H., 478 Lam, J., 716 Landymore, R. W., 107 Langer, T., 435 Lappas, D. G., 157 Larrea, J. L., 714 Larrieu, A. J., 192 Laschinger, J. C., 287 Lasczower, M., 313 Lavergne, A., 647 Lawrie, G. M., 698 Lester, J. L., III, 674 Levine, M. M., 581 Levitsky, S., 107, 444\* Lewis, J. W., Jr., 553 Lichtenthal, P. R., 538 Liddle, H. V., 374 Lindsay, W. G., 307 Loeb, J. M., 538 Lolley, D. M., 658\* Long, R., 181 Lough, F. C., 664 Lowenstein, E., 157 Lower, R. R., 132, 329 Lui, A. H. F., 111 Lupinetti, F. M., 58 Lytle, B. W., 488\*

MacKenzie, J. W., 638\* MacVaugh, H., 71 Madrazo, B. L., 553 Maffei, G., 413 Magilligan, D. J., Jr., 553, 623\* Magovern, G. J., Jr., 249 Magovern, K. A., 40, 246.\*

Mansour, K. A., 40, 246,\*
473
Marbarger, J. P., Jr., 22
Marcelletti, C., 716

Marcelletti, C., 716 Marchese, A., 413 Marck, K. M., 74, 81 Marsh, H. M., 51 Martini, N., 521, 696\* Matsuda, H., 590 Matsuda, Y., 590

Mauck, H. P., 329 Mayo, P., 401 McCallister, B. D., 559 McCorkle, C. E., 673\* McElvein, R. B., 401,

477, 729 McGoldrick, J., 166 McKeown, P., 16 McKneally, M. F., 477, 557\*

Menasché, P., 647

Mendelsohn, A., 287 Mendes, O. C., 634 Merrell, R. C., 572 Messina, L., 422 Michaelis, L. L., 538 Miller, J. I., 40, 473 Mills, N. L., 512,\* 607 Mirowski, M., 515 Miyagishima, R. T., 625 Miyoshi, S., 590 Moores, W. Y., 224 Moran, J. M., 538 Morimoto, M., 452

Morin, J. E., 181 Morishita, Y., 348 Mower, M. M., 515 Mudd, J. G., 408 Munro, A. I., 625 Murray, G. F., 634

Muster, A. J., 586

Myers, J. L., 529

Morin, D., 89

Najafi, H., 297, 489, 727, 730 Nakamura, K., 452 Nauta, R. J., 66 Nicoloff, D. M., 307 Nijveld, A., 716 Noonan, J. A., 125 Northrup, W. F., 307 Nudel, L., 714

Oakes, D. D., 572, 731 Oberman, A., 353 Ochsner, J. L., 502\*

Núñez, L., 714

O'Connor, W. N., 125 Odagiri, S., 659 Offord, K. P., 684 O'Hara, M. D., 446 Ohashi, H., 452 Ohteki, H., 710 Okada, R. D., 157 Olson, R. D., 58 O'Neill, M. J., 277\*, 680 Orringer, J. S., 237 Orringer, M. B., 237 Orsini, M. A., 461 Orszulak, T. A., 706 Osteen, R. T., 66

Pae, W. E., Jr., 529 Pairolero, P. C., 684 Palanzo, D. A., 680 Park, S. B., 489\* Parker, F. B., Jr., 466 Parker, J. S., 664 Parr, G. V. S., 680 Patterson, G. A., 692 Paul, M. H., 586 Payne, W. S., 684 Pearson, F. G., 692 Pelletier, C., 612 Pepine, C. J., 504 Peters, R. M., 579\* Phillips, S. J., 196 Piehler, J. M., 684 Pierce, W. S., 529 Piers, D. A., 81 Piwnica, A., 647 Pohost, G. M., 157 Prager, R. L., 6, 176 Prioleau, W. H., Jr., 471, 490 Prophet, G. A., 529 Puglia, E., 192

Rahan, M., 383 Rainer, W. G., 512\* Ralphs-Thibodeau, S., 181 Rastegar, H., 586 Read, R. C., 10 Reed, W. A., 559 Reid, P. R., 515 Riba, A., 457 Roberts, A. J., 504 Robicsek, F., 92, 123,\* 208, 502,\* 644 Roe, B. B., 95, 297, 394,\* Rose, D. M., 333 Rosen, R. A., 553 Rosenfeldt, F. L., 138 Rothlin, M., 117 Rousou, J. H., 256,\* 444\* Rowen, M., 186

Rubin, J. W., 110

Rucker, R. W., 186 Russo, P. A., 413 Ryder, D. E., 230

Sade, R. M., 56,\* 421\* Sadeghi, H., 89 Sagar, K. B., 329 Saha, S. P., 401 Saleh, S. S., 223 Salvador, J. D., 185\* Sampath, R., 125 Sanders, J. H., Jr., 538 Sayegh, S. M., 696\* Schaff, H. V., 51 Schuller, J. L., 716 Scott, M. A., 204 Sealy, W. C., 394\* Selby, J. J., 504 Senning, Å., 117 Shandling, B., 258 Shaz, S., 558\* Sherck, J. P., 572 Shida, T., 452 Sima, A. F., 299 Skinner, D. B., 246\* Sloan, H., 34, 111 Smith, D. R., 265 Smith, M. D., 329 Smyth, N. P. D., 594 Snyder, R. J., 664 Solis, R. T., 204 Soma, Y., 659 Sondheimer, H. M., 466 Spencer, F. C., 287 Sperling, D. R., 186 Spratt, E. H., 258 Srinivasan, V., 46 Starnes, V. A., 58 Steiger, Z., 527\* Stephenson, L. W., 224, 435 Stone, R. M., 258 Strasberg, S., 258 Subramanian, S., 46 Sukumaran, M., 702

Tait, G. A., 299
Takao, A., 478
Takeuchi, S., 594
Tandon, A. P., 265
Tashian, J., 34, 111
Taylor, K. M., 222
Thomas, A., 515
Thompkins, T., 427
Tinker, J. H., 706
Todd, E. P., 125
Todd, T. R. J., 692
Togut, A. J., 690,\* 696\*
Tomasello, D. N., 71
Touchot, B., 647
Trinkle, J. K., 278

Swartz, M. T., 408

Turina, M., 117, 313, 501,\* 513\* Turley, K., 422 Tutassura, H., 625 Tyers, G. F. O., 513\*, 625 Tyras, D. H., 408

Uhlig, P. N., 422 Ulyot, D. J., 297\* Urzua, J., 608 Utley, T., 471

VanDevanter, S., 482 Van Praagh, R., 478 Vlahakes, G. J., 422 Voegele, L. D., 471, 490 Wakabayashi, A., 201
Wain, W. H., 146
Waites, T. F., 427
Waldhausen, J. A., 109, 461, 529, 680
Waldo, A. L., 388
Wallace, H. W., 256\*
Ware, J. A., 204
Waters, P. F., 258
Watkins, L., Jr., 515
Watson, W. D., 504
Watts, M. A., 324
Webb, W. R., 56, 263, 444\*
Weber, D. O., 439

Weiland, L. H., 684

Weisfeldt, M. L., 515 Weissberg, D., 222, 557\* Wesselhoeft, C. W., Jr., 640 Westaby, S., 388 Wideman, F. E., 109 Wilcox, B. R., 634 Wildevuur, C. R. H., 74, 81 Wilkinson, Z. S., 702 Williams, D. B., 51, 81 Williams, D. R., 680 Williams, J. B., 435

Wilson, C. H., 6

Wilson, G. J., 299

Wisoff, B. G., 581

Wolpowitz, A., 581 Wood, A. E., 446 Wynands, E., 181 Wynn, M. L., 186

Yacoub, M., 383 Yarnoz, M. D., 439 Yotsu, R., 659

Zajtchuk, R., 664 Zeff, R. H., 196 Zeldin, R. A., 258 Zito, R., 457 Zurick, A. M., 608

# Subject Index

Acute carcinoid syndrome

acute carcinoid syndrome: a complication of flexible fiberoptic bronchoscopy (Sukumaran et al), CASE REPORT, 702

Adenocarcinoma

carcinoma of the lung in women (Kirsh et al), 34

Adjuvant radiotherapy

the value of adjuvant radiotherapy in pulmonary and chest wall resection for bronchogenic carcinoma (Patterson et al), 692

Adolescence

acute empyema in children treated by open thoracotomy and decortication (Mayo et al), 401

Adriamycin. See Doxorubicin

Albumin

clinical comparison of hetastarch and albumin in postoperative cardiac patients (Diehl et al), 674 hetastarch as a prime for cardiopulmonary bypass

(Palanzo et al), 680

Anesthesia, one-lung lateral thoracotomy an

lateral thoracotomy and one-lung anesthesia in patients with morbid obesity (Oakes et al), 572

one-lung high-frequency ventilation for tracheoplasty and bronchoplasty: a new technique (El-Baz et al), 564

Aneurysm, dissecting

the ascending aortic aneurysm: replacement or repair? (Egloff et al), 117

Aneurysm, false

Björk-Shiley leaflet impairment in an ascending aortic conduit due to extrinsic compression by a false aneurysm (Orszulak et al), CASE REPORT, 706

Angina

symptomatic status and pattern of employment during a five-year period following myocardial revascularization for angina (Guvendik et al), 383

Angina pectoris

unstable angina pectoris: comparison with the National Cooperative Study (Jones et al), 427

Angiography

coronary artery spasm following coronary artery revascularization (Zeff et al), CASE REPORT, 196

Aorta

abdominal

blood elastolytic activity in patients with aortic aneurysm (Cannon and Read), 10

ascending

the ascending aortic aneurysm: replacement or repair? (Egloff et al), 117

clinical results of cardiopulmonary bypass with selective cerebral perfusion for aneurysm of the ascending aorta and the aortic arch (Soma et al), 659 the dilemma of the ascending aortic aneurysm (Bahnson), EDITORIAL, 115

management of ascending aortic aneurysm complicating coarctation of the aorta (Sampath et al), 125

a new method to treat fusiform aneurysms of the ascending aorta associated with aortic valve disease: an alternative to radical resection (Robicsek), HOW TO DO IT, 92

thoracio

clinical results of cardiopulmonary bypass with selective cerebral perfusion for aneurysm of the ascending aorta and the aortic arch (Soma et al). 659

intraoperative detection of spinal cord ischemia using somatosensory cortical evoked potentials during thoracic aortic occlusion (Coles et al), 299

pseudoaneurysm of the thoracic aorta: a late complication of umbilical artery catheterization (Wynn et al), CASE REPORT, 186

Aortic anastomoses

vascular anastomoses in growing vessels: the use of absorbable sutures (Myers et al), 529

Aortic aneurysm

the ascending aortic aneurysm: replacement or repair? (Egloff et al), 117

blood elastolytic activity in patients with aortic aneurysm (Cannon and Read), 10

clinical results of cardiopulmonary bypass with selective cerebral perfusion for aneurysm of the ascending aorta and the aortic arch (Soma et al), 659

the dilemma of the ascending aortic aneurysm (Bahnson), EDITORIAL, 115

management of ascending aortic aneurysm complicating coarctation of the aorta (Sampath et al), 125

a new method to treat fusiform aneurysms of the ascending aorta associated with aortic valve disease: an alternative to radical resection (Robicsek), HOW TO DO IT, 92

Aortic arch. See Aorta, thoracic

Aortic coarctation

answers (Cleveland), THORACIC SURGERY QUIZ, 476
management of ascending aortic aneurysm complicating coarctation of the aorta (Sampath et
al), 125

questions (Cleveland), THORACIC SURGERY QUIZ, 470

Aortic valve

Björk-Shiley leaflet impairment in an ascending aortic conduit due to extrinsic compression by a false aneurysm (Orszulak et al), CASE REPORT, 706

a new method to treat fusiform aneurysms of the

Aortic valve (continued)

ascending aorta associated with aortic valve disease: an alternative to radical resection (Robicsek), ноw то ро іт, 92

thromboembolic complications of current cardiac valvular prostheses (Edmunds), COLLECTIVE REVIEW, 96

retrograde coronary sinus perfusion: a safe alternative for ensuring cardioplegic delivery in aortic valve surgery (Menasché et al), 647

severe supravalvular aortic stenosis: successful surgical correction by extended aortoplasty (Graham et al), CASE REPORT, 698

Aortocoronary bypass

arrhythmia prophylaxis using propranolol after coronary artery surgery (Williams et al), 435

coronary artery bypass in women: long-term survival (Killen et al), 559

coronary artery spasm following coronary artery revascularization (Zeff et al), CASE REPORT, 196

determinants of operative survival following combined mitral valve replacement and coronary revascularization (DiSesa et al), 482

effect of sodium nitroprusside during the payback period of cardiopulmonary bypass on the incidence of postoperative arrhythmias (Arom et al), 307

flow in coronary artery bypass grafts to totally and partially occluded left anterior descending coronary arteries (Prioleau et al), 490

hypothermic ischemic arrest versus hypothermic potassium cardioplegia in human beings (Jacocks et al), 157

late patency of the internal mammary artery as a coronary bypass conduit (Barner et al), 408

methylene blue to visualize washed-out coronary arteries (Roe), HOW TO DO IT, 95

mitral valve replacement and coronary artery bypass grafting (Karp), EDITORIAL, 480

percutaneous transluminal coronary angioplasty: role of the surgeon (Jones et al), 493

preliminary experience with intraoperative transluminal balloon-catheter dilation and coronary artery bypass grafting for the treatment of symptomatic diffuse coronary artery disease (Roberts et al), 504

return to work after coronary artery bypass grafting (Oberman and Finklea), EDITORIAL, 353

saphenous vein aortocoronary bypass graft in a dog: thirteen-year follow-up (Wakabayashi and Connolly), CASE REPORT, 201

single aortotomy for multiple aortocoronary saphenous vein bypass grafts (Sadeghi and Morin), HOW TO DO IT, 89

unstable angina pectoris: comparison with the National Cooperative Study (Jones et al), 427

Aortocoronary bypass economics profit and loss in coronary artery surgery (Bentall), EDITORIAL, 351

Aortocoronary bypass rehabilitation

the rehabilitation of coronary surgical patients (Liddle et al), 374

Aortoplasty

ascending aortic aneurysm: replacement or repair? (Egloff et al), 117 severe supravalvular aortic stenosis: successful surgical correction by extended aortoplasty (Graham et al), CASE REPORT, 698

Aortoventriculoplasty

aortoventriculoplasty (Bjørnstad and deVivie), CORRESPONDENCE, 223

Aphasia

surgery for esophageal motor disorders (DeMeester), EDITORIAL, 225

Arm innervation

upper extremity neuropathies following median sternotomy (Morin et al), 181

Arrhythmia

arrhythmia prophylaxis using propranolol after coronary artery surgery (Williams et al), 435

effect of sodium nitroprusside during the payback period of cardiopulmonary bypass on the incidence of postoperative arrhythmias (Arom et al), 307

extended endocardial resection for the treatment of ventricular tachycardia and ventricular fibrillation (Moran et al), 538

ventricular

implantation of the automatic defibrillator: the subxiphoid approach (Watkins et al), 515

Artery, internal mammary

late patency of the internal mammary artery as a coronary bypass conduit (Barner et al), 408

Aspergillosis

answers (Kirsh), THORACIC SURGERY QUIZ, 221 questions (Kirsh), THORACIC SURGERY QUIZ, 207

Aspergillus fumigatus

answers (Kirsh), THORACIC SURGERY QUIZ, 221

Asymmetric myocardial hypothermia

asymmetrical myocardial hypothermia during hypothermic cardioplegia (Fisk et al), 318

Atrial blood pressure

the hemodynamic response to dopamine and nitroprusside following right atrium-pulmonary artery bypass (Fontan procedure) (Williams et al). 51

Atrial pacing

atrial pacing (Smyth), CORRESPONDENCE, 594

Atrioventricular canal

correction of complete endocardial cushion defect (Imamura and Takeuchi), CORRESPONDENCE, 594

Atrioventricular valve

closure of the right atrioventricular valve in the modified Fontan operation for univentricular heart (Nuñez et al), HOW TO DO IT, 714

subacute bacterial endocarditis and complete endocardial cushion defect (Bove et al), CASE RE-PORT, 466

Autotransfusion. See Blood transfusion, autologous

Bacillus Calmette-Guérin vaccine. See BCG vaccine

Balloon-catheter dilation, intraoperative

preliminary experience with intraoperative balloon-catheter dilation and coronary artery bypass grafting for the treatment of symptomatic diffuse coronary artery disease (Roberts et al), 504

BCG vaccine

intrapleural bacillus Calmette-Guérin administra-

tion (Bennett and McKneally), CORRESPONDENCE, 477

Belsey procedure

reflux control following myotomy in diffuse esophageal spasm (Henderson and Ryder), 230

Bilobectomy

bronchial carcinoma and the lymphatic sump: the importance of bronchoscopic findings (Murray et al), 634

Bioprosthesis

clinical and hemodynamic results with the Carpentier-Edwards porcine bioprosthesis (Pelletier et al), 612

clinical durability of the pericardial xenograft valve: ten years' experience with mitral replacement (Ionescu et al), 265

early open radical commissurotomy: surgical treatment of choice for mitral stenosis (Laschinger et al), 287

experience with the Carpentier-Edwards porcine valve prosthesis in 700 patients (Janusz et al), 625

porcine cardiac xenograft valves: analysis of survival, valve failure, and explanation (Craver et al), 16

strut snagging on mitral valve prosthesis (Saleh), CORRESPONDENCE, 223; reply (Borman), CORRESPONDENCE, 223

tissue valves (Del Campo), CORRESPONDENCE, 108

Biopsy

scalene node biopsy (Weissberg), CORRESPON-DENCE, 222

Björk-Shiley valve

Björk-Shiley leaflet impairment in an ascending aortic conduit due to extrinsic compression by a false aneurysm (Orszulak et al), CASE REPORT, 706

strut fracture and disc embolization of a Björk-Shiley mitral valve prosthesis: localization of embolized disc by computerized axial tomography (Larrieu et al), CASE REPORT, 192

Bleomycins

treatment of esophageal carcinoma by combined preoperative chemotherapy (Bains et al), 521

Bloch-Sulzberger syndrome

mitral annuloplasty in endomyocardial fibrosis: an alternative to valve replacement (Wood et al), CASE REPORT, 446

Blood flow velocity

flow in coronary artery bypass grafts to totally and partially occluded left anterior descending coronary arteries (Prioleau et al), 490

Blood reinfusion. See Blood transfusion, autologous Blood transfusion, autologous

an improved method for collection of shed mediastinal blood for autotransfusion (Voegele et al), ноw то ро гт, 471

a new simple method for intraoperative reinfusion (Turina and Lasczower), 313

Bone neoplasms

mediastinal and osseous lymphangiomatosis: case report and review (Watts et al), CASE REPORT, 324

Book reviews

Cardiology 1981, edited by Roberts et al (Henly), 605

Cardiology Update 1981, edited by Rapaport (Stephenson), 224

Congenital Heart Disease in the First 3 Months of Life, edited by Parenzan (Bailey), 606

Critical Care Cardiology, edited by Rackley (Rubin), 110

Etiology and Morphogenesis of Congenital Heart Disease, edited by Van Praagh and Takao (Laks), 478

Manual of Cardiac Surgery, Vol 1, edited by Harlan et al (Moores), 224

Medical and Surgical Problems of the Esophagus, edited by Stipa et al (Oakes), 731

Pediatric Cardiovascular Disease, edited by Engle (Waldhausen), 109

Perioperative Management in Cardiothoracic Surgery, edited by Roe (Neville), 605

Selected Topics in Cardiac Surgery, by Gallucci et al (Wideman), 109

Thoracic and Cardiovascular Surgery: Continuing Education Review, by James et al (Fosburg), 350

Brock's operation. See Transventricular closed valvotomy

Bronchial neoplasms

acute carcinoid syndrome: a complication of flexible fiberoptic bronchoscopy (Sukumaran et al), CASE REPORT, 702

carinal reconstruction (Grillo), 356

**Bronchiectasis** 

answers (Kirsh), THORACIC SURGERY QUIZ, 221 questions (Kirsh), THORACIC SURGERY QUIZ, 207

Bronchoplasty

one-lung high-frequency ventilation for tracheoplasty and bronchoplasty: a new technique (El-Baz et al), 564

Bronchopulmonary sequestration

pulmonary sequestration causing congestive heart failure in infancy: a report of two cases and review of the literature (Levine et al), CASE RE-PORT, 581

Bronchoscopy

acute carcinoid syndrome: a complication of flexible fiberoptic bronchoscopy (Sukumaran et al), CASE REPORT, 702

bronchial carcinoma and the lymphatic sump: the importance of bronchoscopic findings (Murray et al), 634

Carcinoid tumor

acute carcinoid syndrome: a complication of flexible fiberoptic bronchoscopy (Sukumaran et al), CASE REPORT, 702

Carcinoma

bronchogenic

alterations in pulmonary function following pneumonectomy for bronchogenic carcinoma (Dunn et al), 176

bronchial carcinoma and the lymphatic sump: the importance of bronchoscopic findings (Murray et al), 634

bronchogenic carcinoma with chest wall inva-

Carcinoma (continued)

sion: factors affecting survival following en bloc resection (Piehler et al), 684

the value of adjuvant radiotherapy in pulmonary and chest wall resection for bronchogenic carcinoma (Patterson et al), 692

epidermoid. See Carcinoma, squamous cell

squamous cell

carcinoma of the lung in women (Kirsh et al), 34 treatment of esophageal carcinoma by combined preoperative chemotherapy (Bains et al), 521

the value of radiographic and computed tomography in the staging of lung carcinoma (Lewis et al), 553

Cardiac output

the hemodynamic response to dopamine and nitroprusside following right atrium-pulmonary artery bypass (Fontan procedure) (Williams et al), 51

Cardiopulmonary bypass

clinical results of cardiopulmonary bypass with selective cerebral perfusion for aneurysm of the ascending aorta and the aortic arch (Soma et al), 659

comparison of roller pump versus pressurized bag administration of potassium cardioplegic so-

lution (Grover et al), 278

effect of sodium nitroprusside during the payback period of cardiopulmonary bypass on the incidence of postoperative arrhythmias (Arom et al). 307

hetastarch as a prime for cardiopulmonary bypass (Palanzo et al), 680

hyperkalemia complicating cardiopulmonary bypass: analysis of risk factors (Weber and Yarnoz), 439

plasma vasopressin during cardiopulmonary bypass (Taylor), correspondence, 222

platelet aggregation during and after cardiopulmonary bypass: effect of two different cardiotomy filters (Ware et al), NOTE, 204

postoperative hemorrhage after cardiopulmonary bypass (Mills), EDITORIAL, 607

Waterston anastomosis in two-stage correction of severe tetralogy of Fallot: ten years of experience (Azzolina et al), 413

Cardiotomy filter

platelet aggregation during and after cardiopulmonary bypass: effect of two different cardiotomy filters (Ware et al), NOTE, 204

Carina resection

carinal reconstruction (Grillo), 356

Carlon, Carlo A.

an epitaph for cavopulmonary anastomosis (Robicsek), COLLECTIVE REVIEW, 208

Carpentier-Edwards valve

clinical and hemodynamic results with the Carpentier-Edwards porcine prosthesis (Pelletier et al), 612

experience with the Carpentier-Edwards porcine valve prosthesis in 700 patients (Janusz et al), 625

neointimal obstruction of Carpentier-Edwards valved conduit in two patients with modified Fontan procedure (DeLeon et al), CASE REPORT, 586

Cartilage resection, subperichondrial

 a simplified approach to the repair of pediatric pectus deformities (Wesselhoeft and DeLuca), 640

Catheterization, adverse effects

pseudoaneurysm of the thoracic aorta: a late complication of umbilical artery catheterization (Wynn et al), CASE REPORT, 186

Cavopulmonary anastomosis

an epitaph for cavopulmonary anastomosis (Robicsek), COLLECTIVE REVIEW, 208

Cerebral perfusion

clinical results of cardiopulmonary bypass with selective cerebral perfusion for aneurysm of the ascending aorta and the aortic arch (Soma et al), 659

Chest wall neoplasms

bronchogenic carcinoma with chest wall invasion: factors affecting survival following en bloc resection (Piehler et al), 684

initial and long-term results in the management of primary chest wall neoplasms (Graeber et al), 664

the value of adjuvant radiotherapy in pulmonary and chest wall resection for bronchogenic carcinoma (Patterson et al), 692

Chest wall resection

the value of adjuvant radiotherapy in pulmonary and chest wall resection for bronchogenic carcinoma (Patterson et al), 692

Child

acute empyema in children treated by open thoracotomy and decortication (Mayo et al), 401

a simplified approach to the repair of pediatric pectus deformities (Wesselhoeft and DeLuca), 640

Chondrosarcoma

initial and long-term results in the management of primary chest wall neoplasms (Graeber et al), 664

Chylopericardium

cardiac tamponade secondary to chylopericardium following cardiac surgery: case report and review of the literature (Rose et al), CASE REPORT, 333

Chylothorax

mediastinal and osseous lymphangiomatosis: case report and review (Watts et al), CASE REPORT, 324

Cisplatin

treatment of esophageal carcinoma by combined preoperative chemotherapy (Bains et al), 521

Classics in thoracic surgery

John H. Gibbon, Jr. Part I. The development of the first successful heart-lung machine (Hill), 337

John H. Gibbon, Jr. Part II. Personal reminiscences (Dobell), 342

Collective review

an epitaph for cavopulmonary anastomosis (Robicsek), 208 thromboembolic complications of current cardiac valvular prostheses (Edmunds), 96

Commissurotomy

open radical

early open radical commissurotomy: surgical treatment of choice for mitral stenosis (Laschinger et al), 287

valvular

surgical correction of congenital tricuspid stenosis (Smith et al), CASE REPORT, 329

Cooling pads

topical cardiac cooling by recirculation: comparison of a closed system using a cooling pad with an open system using a topical spray (Rosenfeldt and Arnold), 138

Coronary arteries

flow in coronary artery bypass grafts to totally and partially occluded left anterior descending coronary arteries (Prioleau et al), 490

Coronary artery bypass. See Aortocoronary bypass

Coronary artery obstruction

reply to letter (Levitsky), correspondence, 107

Coronary artery spasm

coronary artery spasm following coronary artery revascularization (Zeff et al), CASE REPORT, 196

Coronary disease

flow in coronary artery bypass grafts to totally and partially occluded left anterior descending coronary arteries (Prioleau et al), 490

functional and metabolic preservation of the immature myocardium with verapamil following global ischemia (Starnes et al), 58

percutaneous transluminal coronary angioplasty: role of the surgeon (Jones et al), 493

preliminary experience with intraoperative transluminal balloon-catheter dilation and coronary artery bypass grafting for the treatment of symptomatic diffuse coronary artery disease (Roberts et al), 504

Coronary vessels

methylene blue to visualize washed-out coronary arteries (Roe), HOW TO DO IT, 95

Correspondence

aortoventriculoplasty (Bjørnstad and deVivie), 223

atrial pacing (Smyth), 594; reply (Bognolo), 595 balanced drainage system (da Rosa), 477; reply (McElvein), 477

balanced postpneumonectomy drainage system (Bennett), 728; reply (McElvein), 729

(Bennett), 728; reply (McElvein), 729 correction of complete endocardial cushion defect (Imamura and Takeuchi), 594

critical coronary artery obstruction (Landymore), 107; reply (Levitsky), 107

instrument to create an atrial septal defect (Garcia L.), 348; reply (Morishita), 348

intrapleural bacillus Calmette-Guérin administration (Bennett and McKneally), 477

intrauterine surgery (Dolan), 595

plasma vasopressin during cardiopulmonary bypass (Taylor), 222

recertification (Fennell), 729

scalene node biopsy (Weissberg), 222

strut snagging on mitral valve prosthesis (Saleh), 223; reply (Borman), 223

tissue valves (Del Campo), 108

Cost/benefit analysis profit and loss in coronary artery surgery (Bentall),

the rehabilitation of coronary surgical patients (Liddle et al), 374

return to work after coronary artery bypass grafting (Oberman and Finklea), EDITORIAL, 353

Coumarins

thromboembolic complications of current cardiac valvular prostheses (Edmunds), COLLECTIVE REVIEW, 96

C-reactive protein

serial C-reactive protein measurements in infective complications following cardiac operation: evaluation and use in monitoring response to therapy (Ghoneim et al), 166

Current review

univentricular heart: can we alter the natural history? (Corno et al), 716

Defibrillator, automatic

implantation of the automatic defibrillator: the subxiphoid approach (Watkins et al), 515

de Vega annuloplasty

an improved de Vega tricuspid annuloplasty (Imamura et al), ноw то до гт, 710

Diabetes mellitus

hyperkalemia complicating cardiopulmonary bypass: analysis of risk factors (Weber and Yarnoz), 439

Dogs

circulatory assistance with a cardiac allograft after exclusion of the canine left ventricle (Alivizatos et al), 132

comparison of roller pump versus pressurized bag administration of potassium cardioplegic solution (Grover et al), 278

saphenous vein aortocoronary bypass graft in a dog: thirteen-year follow-up (Wakabayashi and Connolly), CASE REPORT, 201

topical cardiac cooling by recirculation: comparison of a closed system using a cooling pad with an open system using a topical spray (Rosenfeldt and Arnold), 138

Dopamine

the hemodynamic response to dopamine and nitroprusside following right atrium-pulmonary artery bypass (Fontan procedure) (Williams et al), 51

Doxorubicin

clinical staging and the tendency of malignant pleural mesotheliomas to remain localized (Nauta et al), 66

Drainage

balanced postpneumonectomy drainage system (Bennett), CORRESPONDENCE, 728; reply (McElvein), CORRESPONDENCE, 729

Drainage instrumentation

balanced drainage system (da Rosa), CORRE-SPONDENCE, 477; reply (McElvein), CORRE-SPONDENCE, 477 Ductus arteriosus, patent

answers (Cleveland), THORACIC SURGERY QUIZ, 476 questions (Cleveland), THORACIC SURGERY QUIZ, 470

Dysphagia. See Aphasia

Ebstein's malformation

Ebstein's anomaly: editorial comments and personal observations (Danielson), 396

surgical treatment in Ebstein's malformation (Westaby et al), 388

Echocardiography

surgical correction of congenital tricuspid stenosis (Smith et al), CASE REPORT, 329

Editorials

the dilemma of the ascending aortic aneurysm (Bahnson), 115

mitral valve replacement and coronary artery bypass grafting (Karp), 480

postoperative hemorrhage after cardiopulmonary bypass (Mills), 607

profit and loss in coronary artery surgery (Bentall), 351

surgery for esophageal motor disorders (DeMeester), 225

return to work after coronary artery bypass grafting (Oberman and Finklea), 353

Education, medical, continuing

recertification (Fennell), CORRESPONDENCE, 729

Employment

symptomatic status and pattern of employment during a five-year period following myocardial revascularization for angina (Guvendik et al), 383

Empyema, acute

acute empyema in children treated by open thoracotomy and decortication (Mayo et al), 401

En bloc resection

bronchogenic carcinoma with chest wall invasion: factors affecting survival following en bloc resection (Piehler et al), 684

Endocardial cushion defect, complete

correction of complete endocardial cushion defect (Imamura and Takeuchi), CORRESPONDENCE, 594

subacute bacterial endocarditis and complete endocardial cushion defect (Bove et al), CASE RE-PORT, 466

Endocardial resection, extended

extended endocardial resection for the treatment of ventricular tachycardia and ventricular fibrillation (Moran et al), 538

Endocarditis, prosthetic valve

answers (Najafi), THORACIC SURGERY QUIZ, 730 questions (Najafi), THORACIC SURGERY QUIZ, 727

Endocarditis, subacute bacterial

subacute bacterial endocarditis and complete endocardial cushion defect (Bove et al), CASE RE-PORT, 466

Endomyocardial fibrosis

mitral annuloplasty in endomyocardial fibrosis: an alternative to valve replacement (Wood et al), CASE REPORT, 446

Erich dental arch bars

the flat trachea: a cause of tracheal obstruction and

its surgical management (Waldhausen et al), CASE REPORT, 461

Esophageal disease

esophagectomy: definitive treatment for esophageal neuromotor dysfunction (Orringer and Orringer), 237

surgery for esophageal motor disorders (DeMeester), EDITORIAL, 225

Esophageal motor disorders

surgery for esophageal motor disorders (DeMeester), EDITORIAL, 225

Esophageal neoplasms, drug therapy

treatment of esophageal carcinoma by combined preoperative chemotherapy (Bains et al), 521

Esophageal spasm, diffuse

reflux control following myotomy in diffuse esophageal spasm (Henderson and Ryder), 230

**Esophageal varices** 

a modified Sugiura procedure (Ginsberg et al), 258

Esophagectomy

esophagectomy: definitive treatment for esophageal neuromotor dysfunction (Orringer and Orringer), 237

Esophagitis, peptic

esophagectomy: definitive treatment for esophageal neuromotor dysfunction (Orringer and Orringer), 237

Esophagitis, reflux. See Esophagitis, peptic

Esophagogastrectomy

treatment of esophageal carcinoma by combined preoperative chemotherapy (Bains et al), 521

Esophagogastric devascularization

a modified Sugiura procedure (Ginsberg et al), 258

Esophagus, surgery

esophagectomy: definitive treatment for esophageal neuromotor dysfunction (Orringer and Orringer), 237

reflux control following myotomy in diffuse esophageal spasm (Henderson and Ryder), 230 surgery for esophageal motor disorders (DeMees-

ter), EDITORIAL, 225 Ethics, medical

intrauterine surgery (Dolan), CORRESPONDENCE,

**Evoked potentials** 

intraoperative detection of spinal cord ischemia using somatosensory cortical evoked potentials during thoracic aortic occlusion (Coles et al), 299

Extracorporeal circulation

education

proposed statement on perfusionist affairs (The American Association for Thoracic Surgery and The Society of Thoracic Surgeons), STATE-MENT, 475

John H. Gibbon, Jr. Part I. The development of the first successful heart-lung machine (Hill), CLASSICS IN THORACIC SURGERY, 337

Fetal surgery

intrauterine cardiothoracic surgery: the fetal lamb model (Turley et al), 422

intrauterine surgery (Dolan), CORRESPONDENCE, 595

Fibrosarcoma

initial and long-term results in the management of primary chest wall neoplasms (Graeber et al), 664

Fluosol

optimal myocardial protection with Fluosol cardioplegia (Magovern et al), 249

Follow-up studies

clinical durability of the pericardial xenograft valve: ten years' experience with mitral replacement (Ionescu et al), 265

coronary artery bypass in women: long-term survival (Killen et al), 559

experience with the Carpentier-Edwards porcine valve prosthesis in 700 patients (Janusz et al), 625

saphenous vein aortocoronary bypass graft in a dog: thirteen-year follow-up (Wakabayashi and Connolly), CASE REPORT, 201

symptomatic status and pattern of employment during a five-year period following myocardial revascularization for angina (Guvendik et al), 383

Fontan procedure

the hemodynamic response to dopamine and nitroprusside following right atrium-pulmonary artery bypass (Fontan procedure) (Williams et al), 51

modified

closure of the right atrioventricular valve in the modified Fontan operation for univentricular heart (Nuñez et al), HOW TO DO IT, 714

neointimal obstruction of Carpentier-Edwards valved conduit in two patients with modified Fontan procedure (DeLeon et al), CASE REPORT, 586

Fundoplication

reflux control following myotomy in diffuse esophageal spasm (Henderson and Ryder), 230

Gastric stapling, transabdominal

lateral thoracotomy and one-lung anesthesia in patients with morbid obesity (Oakes et al), 572

Gastric stapling, transthoracic

lateral thoracotomy and one-lung anesthesia in patients with morbid obesity (Oakes et al), 572

Gibbon, John H. Jr.

John H. Gibbon, Jr. Part I. The development of the first successful heart-lung machine (Hill), CLASSICS IN THORACIC SURGERY, 337. Part II. Personal reminiscences (Dobell), CLASSICS IN THORACIC SURGERY, 342

Glenn, W. W. L.

an epitaph for cavopulmonary anastomosis (Robicsek), COLLECTIVE REVIEW, 208

Global ischemia

functional and metabolic preservation of the immature myocardium with verapamil following global ischemia (Starnes et al), 58

Graft survival

late patency of the internal mammary artery as a coronary bypass conduit (Barner et al), 408

porcine cardiac xenograft valves: analysis of survival, valve failure, and explantation (Craver et al), 16 Health resources

profit and loss in coronary artery surgery (Bentall), EDITORIAL, 351

Heart, mechanical

John H. Gibbon, Jr. Part I. The development of the first successful heart-lung machine (Hill), CLASSICS IN THORACIC SURGERY, 337

Heart, univentricular

closure of the right atrioventricular valve in the modified Fontan operation for univentricular heart (Nuñez et al), How TO DO IT, 714

univentricular heart: can we alter the natural history? (Corno et al), CURRENT REVIEW, 716

Heart arrest, induced

asymmetrical myocardial hypothermia during hypothermic cardioplegia (Fisk et al), 318

comparison of roller pump versus pressurized bag administration of potassium cardioplegic solution (Grover et al), 278

critical coronary artery obstruction (Landymore), CORRESPONDENCE, 107

hyperkalemia complicating cardiopulmonary bypass: analysis of risk factors (Weber and Yarnoz), 439

hypothermic ischemic arrest versus hypothermic potassium cardioplegia in human beings (Jacocks et al), 157

optimal myocardial protection with Fluosol cardioplegia (Magovern et al), 249

retrograde coronary sinus perfusion: a safe alternative for ensuring cardioplegic delivery in aortic valve surgery (Menasché et al), 647

topical cardiac cooling by recirculation: comparison of a closed system using a topical spray (Rosenfeldt and Arnold), 138

Heart catheterization

pulmonary sequestration causing congestive heart failure in infancy: a report of two cases and review of the literature (Levine et al), CASE RE-PORT, 581

Heart defects, congenital

subacute bacterial endocarditis and complete endocardial cushion defect (Bove et al), CASE RE-PORT, 466

successful Rastelli operation in infant with complete transposition of great arteries, levoposition of aorta, and subaortic ventricular septal defect (Matsuda et al), CASE REPORT, 590

univentricular heart: can we alter the natural history? (Corno et al), CURRENT REVIEW, 716

Heart failure, congestive

pulmonary sequestration causing congestive heart failure in infancy: a report of two cases and review of the literature (Levine et al), CASE RE-PORT, 581

Heart-lung machine. See Heart, mechanical

Heart, septal defects

atrial

instrument to create an atrial septal defect (Garcia L.), CORRESPONDENCE, 348; reply (Morishita), CORRESPONDENCE, 348

surgical correction of congenital tricuspid stenosis (Smith et al), CASE REPORT, 329 correction of complete endocardial cushion defect Heart, septal defects (continued)

(Imamura and Takeuchi), CORRESPONDENCE, 594

ventricular

answers (Cleveland), THORACIC SURGERY QUIZ, 476

questions (Cleveland), THORACIC SURGERY QUIZ, 470

successful Rastelli operation in infant with complete transition of great arteries, levoposition of aorta, and subaortic ventricular septal defect (Matsuda et al), CASE REPORT, 590

Heart surgery

complications

cardiac tamponade secondary to chylopericardium following cardiac surgery: case report and review of the literature (Rose et al), CASE REPORT, 333

control of postcardiotomy bleeding with PEEP (Hoffman et al), 71

failure of positive end-expiratory pressure to decrease postoperative bleeding after cardiac surgery (Zurick et al), 608

serial C-reactive protein measurements in infective complications following cardiac operation: evaluation and use in monitoring response to therapy (Ghoneim et al), 166

Heart surgery, blood

improved method for collection of shed mediastinal blood for autotransfusion (Voegele et al), HOW TO DO IT, 471

Heart transplantation

circulatory assistance with a cardiac allograft after exclusion of the canine left ventricle (Alivizatos et al), 132

Heart valve prosthesis

adverse effects

Björk-Shiley leaflet impairment in an ascending aortic conduit due to extrinsic compression by a false aneurysm (Orszulak et al), CASE REPORT, 706

assessment and comparison of the performance of cardiac valves (Bodnar et al), 146

clinical and hemodynamic results with the Carpentier-Edwards porcine bioprosthesis (Pelletier et al), 612

clinical durability of the pericardial xenograft valve: ten years' experience with mitral replacement (Ionescu et al), 265

clinical life history of explanted prosthetic heart valves (Marbarger and Clark), 22

determinants of operative survival following combined mitral valve replacement and coronary revascularization (DiSesa et al), 482

dilemma of the ascending aortic aneurysm (Bahnson), EDITORIAL, 115

early open radical commissurotomy: surgical treatment of choice for mitral stenosis (Laschinger et al), 287

Ebstein's anomaly: editorial comments and personal observations (Danielson), 396

experience with the Carpentier-Edwards porcine valve prosthesis in 700 patients (Janusz et al), 625

mitral valve replacement and coronary artery bypass grafting (Karp), EDITORIAL, 480

porcine cardiac xenograft valves: analysis of survival, valve failure, and explantation (Craver et al), 16

strut fracture and disc embolization of a Björk-Shiley mitral valve prosthesis localization of embolized disc by computerized axial tomography (Larrieu et al), CASE REPORT, 192

strut snagging on mitral valve prosthesis (Saleh), CORRESPONDENCE, 223

surgical treatment in Ebstein's malformation (Westaby et al), 388

thromboembolic complications of current cardiac valvular prostheses (Edmunds), COLLECTIVE REVIEW, 96

tissue valves (Del Campo), correspondence, 108

Heart valve surgery

the clinical life history of explanted prosthetic heart valves (Marbarger and Clark), 22

porcine cardiac xenograft valves: analysis of survival, valve failure, and explantation (Craver et al), 16

Heart ventricles

asymmetrical myocardial hypothermia during hypothermic cardioplegia (Fisk et al), 318

Hemodynamic collapse

intraoperative use of nifedipine for hemodynamic collapse due to coronary artery spasm following myocardial revascularization (Kopf et al), CASE REPORT, 457

Hemorrhage

control of postcardiotomy bleeding with PEEP (Hoffman et al), 71

failure of positive end-expiratory pressure to decrease postoperative bleeding after cardiac surgery (Zurick et al), 608

postoperative hemorrhage after cardiopulmonary bypass (Mills), EDITORIAL, 607

Hetastarch

clinical comparison of hetastarch and albumin in postoperative cardiac patients (Diehl et al), 674 hetastarch as a prime for cardiopulmonary bypass

(Palanzo et al), 680

How to do it

closure of the right atrioventricular valve in the modified Fontan operation for univentricular heart (Nuñez et al), 714

improved de Vega tricuspid annuloplasty (Imamura et al), 710

improved method for collection of shed mediastinal blood for autotransfusion (Voegele et al), 471

median sternotomy T incision for thymectomy in myasthenia gravis (Miller et al), 473

single aortotomy for multiple aortocoronary saphenous vein bypass grafts (Sadeghi and Morin), 89

Hyperkalemia

hyperkalemia complicating cardiopulmonary bypass: analysis of risk factors (Weber and Yarnoz), 439

Hypothermia, induced

asymmetrical myocardial hypothermia during hypothermic cardioplegia (Fisk et al), 318

critical coronary artery obstruction (Landymore), CORRESPONDENCE, 107; reply (Levitsky), COR-RESPONDENCE, 107 hypothermic ischemic arrest versus hypothermic potassium cardioplegia in human beings (Jacocks et al), 157

#### methods

comparison of roller pump versus pressurized bag administration of potassium cardioplegic solution (Grover et al), 278

retrograde coronary sinus perfusion: a safe alternative for ensuring cardioplegic delivery in aortic valve surgery (Menasché et al), 647

topical cardiac cooling by recirculation: comparison of a closed system using a cooling pad with an open system using a topical spray (Rosenfeldt and Arnold), 138

optimal myocardial protection with Fluosol cardioplegia (Magovern et al), 249

Incontinentia pigmenti. See Bloch-Sulzberger syndrome

#### Infant

critical pulmonary stenosis in infants less than three months of age: a reappraisal of closed transventricular pulmonary valvotomy (Srinivasan et al), 46

pseudoaneurysm of the thoracic aorta: a late complication of umbilical artery catheterization (Wynn et al), CASE REPORT, 186

pulmonary sequestration causing congestive heart failure in infancy: a report of two cases and review of the literature (Levine et al), CASE RE-PORT, 581

successful Rastelli operation in infant with complete transition of great arteries, levoposition of aorta, and subaortic ventricular septal defect (Matsuda et al), CASE REPORT, 590

Waterston anastomosis in two-stage correction of severe tetralogy of Fallot: ten years of experience (Azzolina et al), 413

#### Infection

serial C-reactive protein measurements in infective complications following cardiac operation: evaluation and use in monitoring response to therapy (Ghoneim et al), 166

International symposium on cardiothoracic surgery The Beijing Cardiothoracic Symposium (Sloan et al), REPORT, 111

#### Intraoperative period

intraoperative detection of spinal cord ischemia using somatosensory cortical evoked potentials during thoracic aortic occlusion (Coles et al), 299

a new simple method for intraoperative reinfusion (Turina and Lasczower), 313

### Intrauterine surgery

intrauterine cardiothoracic surgery: the fetal lamb model (Turley et al), 422

intrauterine surgery (Dolan), CORRESPONDENCE, 595 Ischemic heart disease. See Coronary disease

#### Konno procedure

aortoventriculoplasty (Bjørnstad and deVivie), CORRESPONDENCE, 223

#### Lamb

intrauterine cardiothoracic surgery: the fetal lamb model (Turley et al), 422 Leriche's syndrome

blood elastolytic activity in patients with aortic aneurysm (Cannon and Read), 10

#### Lung

alterations in pulmonary function following pneumonectomy for bronchogenic carcinoma (Dunn et al), 176

Lung neoplasms

alterations in pulmonary function following pneumonectomy for bronchogenic carcinoma (Dunn et al), 176

carcinoma of the lung in women (Kirsh et al), 34 carinal reconstruction (Grillo), 356

clinical staging and the tendency of malignant pleural mesotheliomas to remain localized (Nauta et al), 66

intrapleural bacillus Calmette-Guérin administration (Bennett and McKneally), 477

# surgery

bronchial carcinoma and the lymphatic sump: the importance of bronchoscopic findings (Murray et al), 634

the value of radiographic and computed tomography in the staging of lung carcinoma (Lewis et al), 553

#### Lung transplantation

lung transplantation in the rat: I. technique and survival (Marck and Wildevuur), 74

lung transplantation in the rat: II. lung perfusion scintigraphy in normal and left lungtransplanted rats (Marck et al), 81

## Lymphangioma

mediastinal and osseous lymphangiomatosis: case report and review (Watts et al), CASE REPORT, 324

# Mediastinal neoplasms

mediastinal and osseous lymphangiomatosis: case report and review (Watts et al), CASE REPORT, 324

# Mediastinoscopy

scalene node biopsy (Weissberg), CORRESPON-DENCE, 222

# Mesothelioma

clinical staging and the tendency of malignant pleural mesotheliomas to remain localized (Nauta et al), 66

### Methylene blue

methylene blue to visualize washed-out coronary arteries (Roe), HOW TO DO IT, 95

# Mitral annuloplasty

mitral annuloplasty in endomyocardial fibrosis: an alternative to valve replacement (Wood et al), CASE REPORT, 446

# Mitral valve

strut fracture and disc embolization of a Björk-Shiley mitral valve prosthesis: localization of embolized disc by computerized axial tomography (Larrieu et al), CASE REPORT, 192

strut snagging on mitral valve prosthesis (Saleh), CORRESPONDENCE, 223

thromboembolic complications of current cardiac valvular prostheses (Edmunds), COLLECTIVE REVIEW, 96

### Mitral valve insufficiency

mitral annuloplasty in endomyocardial fibrosis: an

Mitral valve insufficiency (continued)

alternative to valve replacement (Wood et al), CASE REPORT, 446

pulmonary varices associated with mitral valve disease: a case report and survey of the literature (Shida et al), CASE REPORT, 452

Mitral valve stenosis

early open radical commissurotomy: surgical treatment of choice for mitral stenosis (Laschinger et al), 287

Mitral valve surgery

clinical durability of the pericardial xenograft valve: ten years' experience with mitral replacement (Ionescu et al), 265

determinants of operative survival following combined mitral valve replacement and coronary revascularization (DiSesa et al), 482

mitral valve replacement and coronary artery bypass grafting (Karp), EDITORIAL, 480

Models, animal

intrauterine cardiothoracic surgery: the fetal lamb model (Turley et al), 422

Myasthenia gravis

median sternotomy T incision for thymectomy in myasthenia gravis (Miller et al), How TO DO IT, 473

Myocardial infarction

circulatory assistance with a cardiac allograft after exclusion of the canine left ventricle (Alivizatos et al), 132

unstable angina pectoris: comparison with the National Cooperative Study (Jones et al), 427

Myocardial preservation

hypothermic ischemic arrest versus hypothermic potassium cardioplegia in human beings (Jacocks et al), 157

optimal myocardial protection with Fluosol cardioplegia (Magovern et al), 249

Myocardial revascularization

clinical comparison of hetastarch and albumin in postoperative cardiac patients (Diehl et al), 674 critical coronary artery obstruction (Landymore), CORRESPONDENCE, 107

hetastarch as a prime for cardiopulmonary bypass

(Palanzo et al), 680

intraoperative use of nifedipine for hemodynamic collapse due to coronary artery spasm following myocardial revascularization (Kopf et al), CASE REPORT, 457

the rehabilitation of coronary surgical patients (Liddle et al), 374

symptomatic status and pattern of employment during a five-year period following myocardial revascularization for angina (Guvendik et al), 383

Myocardium immature

functional and metabolic preservation of the immature myocardium with verapamil following global ischemia (Starnes et al), 58

mitral valve replacement and coronary artery bypass grafting (Karp), EDITORIAL, 480

National Cooperative Study on the Treatment of Unstable Angina

unstable angina pectoris: comparison with the National Cooperative Study (Jones et al), 427

Neoplasms, staging

clinical staging and the tendency of malignant pleural mesotheliomas to remain localized (Nauta et al), 66

Nifedipine

intraoperative use of nifedipine for hemodynamic collapse due to coronary artery spasm following myocardial revascularization (Kopf et al), CASE REPORT, 457

Nissen procedure

reflux control following myotomy in diffuse esophageal spasm (Henderson and Ryder), 230 Nitroprusside

effect of nitroprusside during the payback period of cardiopulmonary bypass on the incidence of postoperative arrhythmias (Arom et al), 307

the hemodynamic response to dopamine and nitroprusside following right atrium-pulmonary artery bypass (Fontan procedure) (Williams et al), 51

Note

platelet aggregation during and after cardiopulmonary bypass: effect of two different cardiotomy filters (Ware et al), NOTE, 204

Obesity

lateral thoracotomy and one-lung anesthesia in patients with morbid obesity (Oakes et al), 572 Obituary

Paul C. Samson, M.D., 1905-1982 (Roe), TRIBUTE, 479

Outcome and process assessment

assessment and comparison of the performance of cardiac valves (Bodnar et al), 146

clinical and hemodynamic results with the Carpentier-Edwards porcine bioprosthesis (Pelletier et al), 612

determinants of operative survival following combined mitral valve replacement and coronary revascularization (DiSesa et al), 482

experience with the Carpentier-Edwards porcine valve prosthesis in 700 patients (Janusz et al),

porcine cardiac xenograft valves: analysis of survival, valve failure, and explantation (Craver et al), 16

profit and loss in coronary artery surgery (Bentall), EDITORIAL, 351

the rehabilitation of coronary surgical patients (Liddle et al), 374

return to work after coronary artery bypass grafting (Oberman and Finklea), EDITORIAL, 353

symptomatic status and pattern of employment during a five-year period following myocardial revascularization for angina (Guvendik et al), 383

Pacemaker, artificial

atrial pacing (Smyth), CORRESPONDENCE, 594; reply (Bognolo), CORRESPONDENCE, 595

Paraplegia

intraoperative detection of spinal cord ischemia using somatosensory cortical evoked potentials during thoracic aortic occlusion (Coles et al), 299

Patient participation

the human touch (Dobell), 1

Pectus abnormalities

a simplified approach to the repair of pediatric pectus deformities (Wesselhoeft and DeLuca), 640

People's Republic of China

The Beijing Cardiothoracic Symposium (Sloan et al), REPORT, 111

Percutaneous transluminal coronary angioplasty percutaneous transluminal coronary angioplasty:

role of the surgeon (Jones et al), 493 Perfusion, retrograde coronary sinus

retrograde coronary sinus perfusion: a safe alternative for ensuring cardioplegic delivery in aortic valve surgery (Menasché et al), 647

Perfusion scintigraphy

lung transplantation in the rat: II. lung perfusion scintigraphy in normal and left lungtransplanted rats (Marck et al), 81

Pericardial effusions

pericardiectomy: current indications, concepts, and results in a university center (Miller et al), 40

the subxiphoid approach to pericardial disease (Prager et al), 6

Pericardiectomy

pericardiectomy: current indications, concepts, and results in a university center (Miller et al),

Pericarditis

constrictive

pericardiectomy: current indications, concepts, and results in a university center (Miller et al), 40

the subxiphoid approach to pericardial disease (Prager et al), 6

Pericarditis, diagnosis

the subxiphoid approach to pericardial disease (Prager et al), 6

Pericardium

pericardiectomy: current indications, concepts, and results in a university center (Miller et al),

Peripheral nerve diseases, etiology

upper extremity neuropathies following median sternotomy (Morin et al), 181

Physician-patient relations the human touch (Dobell), 1

Pigs

vascular anastomoses in growing vessels: the use of absorbable sutures (Myers et al), 529

Plasma substitutes

clinical comparison of hetastarch and albumin in postoperative cardiac patients (Diehl et al), 674 hetastarch as a prime for cardiopulmonary bypass (Palanzo et al), 680

Platelet aggregation

platelet aggregation during and after cardiopulmonary bypass: effect of two different cardiotomy filters (Ware et al), NOTE, 204

Pneumonectomy

alterations in pulmonary function following

pneumonectomy for bronchogenic carcinoma (Dunn et al), 176

balanced drainage system (da Rosa), CORRE-SPONDENCE, 447

balanced postpneumonectomy drainage system (Bennett), CORRESPONDENCE, 728; reply (McElvein), CORRESPONDENCE, 729

Polydioxanone

vascular anastomoses in growing vessels: the use of absorbable sutures (Myers et al), 529

Polyglactin

vascular anastomoses in growing vessels: the use of absorbable sutures (Myers et al), 529 Porcine xenograft bioprosthesis. See Bioprosthesis

Positive end-expiratory pressure

control of postcardiotomy bleeding with PEEP (Hoffman et al), 71

failure of positive end-expiratory pressure to decrease postoperative bleeding after cardiac surgery (Zurick et al), 608

postoperative hemorrhage after cardiopulmonary bypass (Mills), EDITORIAL, 607

Postoperative complications

arrhythmia prophylaxis using propranolol after coronary artery surgery (Williams et al), 435

cardiac tamponade secondary to chylopericardium following cardiac surgery: case report and review of the literature (Rose et al), CASE REPORT, 333

failure of positive end-expiratory pressure to decrease postoperative bleeding after cardiac surgery (Zurick et al), 608

postoperative hemorrhage after cardiopulmonary bypass (Mills), EDITORIAL, 607

serial C-reactive protein measurements in infective complications following cardiac operation: evaluation and use in monitoring response to therapy (Ghoneim et al), 166

upper extremity neuropathies following median sternotomy (Morin et al), 181

Postoperative period

clinical comparison of hetastarch and albumin in postoperative cardiac patients (Diehl et al), 674

coronary artery spasm following coronary artery revascularization (Zeff et al), CASE REPORT, 196

effect of sodium nitroprusside during the payback period of cardiopulmonary bypass on the incidence of postoperative arrhythmias (Arom et al), 307

serial C-reactive protein measurements in infective complications following cardiac operation: evaluation and use in monitoring response to therapy (Ghoneim et al), 166

Potassium

comparison of roller pump versus pressurized bag administration of potassium cardioplegic solution (Grover et al), 278

hyperkalemia complicating cardiopulmonary bypass: analysis of risk factors (Weber and Yarnoz), 439

hypothermic ischemic arrest versus hypothermic potassium cardioplegia in human beings (Jacocks et al), 157 Propranolol

arrhythmia prophylaxis using propranolol after coronary artery surgery (Williams et al), 435

Björk-Shiley leaflet impairment in an ascending aortic conduit due to extrinsic compression by a false aneurysm (Orszulak et al), CASE REPORT, 706

the clinical life history of explanted prosthetic heart valves (Marbarger and Clark), 22

strut fracture and disc embolization of a Björk-Shiley mitral valve prosthesis localization of embolized disc by computerized axial tomography (Larrieu et al), CASE REPORT, 192

tissue valves (Del Campo), correspondence, 108

Pulmonary artery

an epitaph for cavopulmonary anastomosis (Robicsek), COLLECTIVE REVIEW, 208

Pulmonary circulation

univentricular heart: can we alter the natural history? (Corno et al), CURRENT REVIEW, 716

Pulmonary sequestration. See Bronchopulmonary sequestration

Pulmonary valve

cardiac tamponade secondary to chylopericardium following cardiac surgery: case report and review of the literature (Rose et al), CASE REPORT, 333

critical pulmonary stenosis in infants less than three months of age: a reappraisal of closed transventricular pulmonary valvotomy (Srinivasan et al), 46

Pulmonary vein

pulmonary varices associated with mitral valve disease: a case report and survey of the literature (Shida et al), CASE REPORT, 452

Radionuclide imaging

lung transplantation in the rat: II. lung perfusion scintigraphy in normal and left lungtransplanted rats (Marck et al), 81

Rastelli operation

successful Rastelli operation in infant with complete transition of great arteries, levoposition of aorta, and subaortic ventricular septal defect (Matsuda et al), CASE REPORT, 590

Rats

lung transplantation in the rat: I. technique and survival (Marck and Wildevuur), 74

lung transplantation in the rat: II. lung perfusion scintigraphy in normal and left lungtransplanted rats (Marck et al), 81

Recertification

recertification (Fennell), CORRESPONDENCE, 729

The Beijing Cardiothoracic Symposium (Sloan et al), 111

Respiratory function tests

alterations in pulmonary function following pneumonectomy for bronchogenic carcinoma (Dunn et al), 176

Roller pump

comparison of roller pump versus pressurized bag administration of potassium cardioplegic solution (Grover et al), 278

Samson, Paul C.

Paul C. Samson, M.D., 1905-1982 (Roe), TRIBUTE,

Saphenous vein

late patency of the internal mammary artery as a coronary bypass conduit (Barner et al), 408

saphenous vein aortocoronary bypass graft in a dog: thirteen-year follow-up (Wakabayashi and Connolly), CASE REPORT, 201

single aortotomy for multiple aortocoronary saphenous vein bypass grafts (Sadeghi and Morin), How to DO IT, 89

Sarcoma, Ewing's

initial and long-term results in the management of primary chest wall neoplasms (Graeber et al), 664

Scalene node

scalene node biopsy (Weissberg), CORRESPON-**DENCE**, 222

Serum elastolytic activity

blood elastolytic activity in patients with aortic aneurysm (Cannon and Read), 10

Shock, cardiogenic

circulatory assistance with a cardiac allograft after exclusion of the canine left ventricle (Alivizatos et al), 132

Spinal cord ischemia

intraoperative detection of spinal cord ischemia using somatosensory cortical evoked potentials during thoracic aortic occlusion (Coles et al), 299

Splenectomy

a modified Sugiura procedure (Ginsberg et al), 258 Starr-Edwards valve

early open radical commissurotomy: surgical treatment of choice for mitral stenosis (Laschinger et al), 287

Statistics

assessment and comparison of the performance of cardiac valves (Bodnar et al), 146

Statement

proposed statement on perfusionist affairs (The American Association for Thoracic Surgery and The Society of Thoracic Surgeons), 475

Sternotomy

complications

upper extremity neuropathies following median sternotomy (Morin et al), 181

median sternotomy T incision for thymectomy in myasthenia gravis (Miller et al), HOW TO DO IT, 473

reply to letter (Borman), CORRESPONDENCE, 223

Subxiphoid pericardial window

the subxiphoid approach to pericardial disease (Prager et al), 6

Sugiura procedure, modified

a modified Sugiura procedure (Ginsberg et al), 258

Sump of Borrie

bronchial carcinoma and the lymphatic sump: the importance of bronchoscopic findings (Murray et al), 634

the human touch (Dobell), 1

percutaneous transluminal coronary angioplasty: role of the surgeon (Jones et al), 493

Surgical instruments

instrument to create an atrial septal defect (Garcia L.), CORRESPONDENCE, 348; reply (Morishita), CORRESPONDENCE, 348

Survival rate

bronchogenic carcinoma with the chest wall invasion: factors affecting survival following en bloc resection (Piehler et al), 684

clinical and hemodynamic results with the Carpentier-Edwards porcine bioprosthesis (Pelletier et al), 612

coronary artery bypass in women: long-term survival (Killen et al), 559

determinants of operative survival following combined mitral valve replacement and coronary revascularization (DiSesa et al), 482

early open radical commissurotomy: surgical treatment of choice for mitral stenosis (Laschinger et al), 287

Sutures

vascular anastomoses in growing vessels: the use of absorbable sutures (Myers et al), 529

Tachycardia, ventricular

extended endocardial resection for the treatment of ventricular tachycardia and ventricular fibrillation (Moran et al), 538

Tampons

cardiac tamponade secondary to chylopericardium following cardiac surgery: case report and review of the literature (Rose et al), CASE REPORT, 333

**Tetralogy of Fallot** 

Waterston anastomosis in two-stage correction of severe tetralogy of Fallot: ten years of experience (Azzolina et al), 413

Thoracic neoplasms

bronchogenic carcinoma with chest wall invasion: factors affecting survival following en bloc resection (Piehler et al), 684

initial and long-term results in the management of primary chest wall neoplasms (Graeber et al), 664

Thoracic surgery quiz

answers (Čleveland), 476; (Kirsh), 221; (Najafi), 730 questions (Cleveland), 470; (Kirsh), 207; (Najafi), 727

Thoracotomy

lateral

lateral thoracotomy and one-lung anesthesia in patients with morbid obesity (Oakes et al), 572

acute empyema in children treated by open thoracotomy and decortication (Mayo et al), 401

Thorax, abnormalities

a simplified approach to the repair of pediatric pectus deformities (Wesselhoeft and DeLuca), 640

Thromboembolism

thromboembolic complications of current cardiac valvular prostheses (Edmunds), COLLECTIVE REVIEW, 96

Tomography, x-ray

computed

the value of radiographic and computed tomography in the staging of lung carcinoma (Lewis et al), 553

Tracheal abnormalities

the flat trachea: a cause of tracheal obstruction and its surgical management (Waldhausen et al), CASE REPORT, 461

Tracheal neoplasms

carinal reconstruction (Grillo), 356

Tracheal surgery

the flat trachea: a cause of tracheal obstruction and its surgical management (Waldhausen et al), CASE REPORT, 461

Tracheoplasty

one-lung high-frequency ventilation for tracheoplasty and bronchoplasty: a new technique (El-Baz et al), 564

Transplantation

homologous

circulatory assistance with a cardiac allograft after exclusion of the canine left ventricle (Alivizatos et al), 132

isogenic

lung transplantation in the rat: I. technique and survival (Marck and Wildevuur), 74

lung transplantation in the rat: II. lung perfusion scintigraphy in normal and left lungtransplanted rats (Marck et al), 81

Transposition of great vessels

successful Rastelli operation in infant with complete transition of great arteries, levoposition of aorta, and subaortic ventricular septal defect (Matsuda et al), CASE REPORT, 590

Transventricular closed valvotomy

critical pulmonary stenosis in infants less than three months of age: a reappraisal of closed transventricular pulmonary valvotomy (Srinivasan et al), 46

Tribute

Paul C. Samson, M.D., 1905-1982 (Roe), 479

Tricuspid valve abnormalities

Ebstein's anomaly: editorial comments and personal observations (Danielson), 396

neointimal obstruction of Carpentier-Edwards valved conduit in two patients with modified Fontan procedure (DeLeon et al), CASE RE-PORT, 586

surgical treatment in Ebstein's malformation (Westaby et al), 388

surgical correction of congenital tricuspid stenosis (Smith et al), CASE REPORT, 329

Tricuspid valve surgery

Ebstein's anomaly: editorial comments and personal observations (Danielson), 396

improved de Vega tricuspid annuloplasty (Imamura et al), How to DO IT, 710

surgical treatment in Ebstein's malformation (Westaby et al), 388

Thymectomy

median sternotomy T incision for thymectomy in myasthenia gravis (Miller et al), ноw то ро гт, 473 Umbilical arteries

pseudoaneurysm of the thoracic aorta: a late complication of umbilical artery catheterization (Wynn et al), CASE REPORT, 186

Upper extremity. See Arm

Varicose veins

pulmonary varices associated with mitral valve disease: a case report and survey of the literature (Shida et al), CASE REPORT, 452

Varix. See Varicose veins

Vasopressin

plasma vasopressin during cardiopulmonary bypass (Taylor), correspondence, 222

Vena cava, superior

an epitaph for cavopulmonary anastomosis (Robicsek), collective review, 208

Ventilation, high-frequency positive pressure

one-lung high-frequency ventilation for tracheoplasty and bronchoplasty: a new technique (El-Baz et al), 564

Ventricular fibrillation

extended endocardial resection for the treatment of ventricular tachycardia and ventricular fibrillation (Moran et al), 538 Verapamil

functional and metabolic preservation of the immature myocardium with verapamil following global ischemia (Starnes et al), 58

Vindesine

treatment of esophageal carcinoma by combined preoperative chemotherapy (Bains et al), 521

Waterston anastomosis

Waterston anastomosis in two-stage correction of severe tetralogy of Fallot: ten years of experience (Azzolina et al), 413

Women

carcinoma of the lung in women (Kirsh et al), 34 coronary artery bypass in women: long-term survival (Killen et al), 559

Work capacity evaluation

profit and loss in coronary artery surgery (Bentall), EDITORIAL, 351

the rehabilitation of coronary surgical patients (Liddle et al), 374

return to work after coronary artery bypass grafting (Oberman and Finklea), EDITORIAL, 353

Xenograft bioprosthesis. See Bioprosthesis





# THE ANNALS OF THORACIC SURGERY

Official Journal of The Society of Thoracic Surgeons and the Southern Thoracic Surgical Association

Volume 34 July-December, 1982

Editor Herbert Sloan, M.D., University Hospital, Ann Arbor, MI

John D. Steele, M.D., Editor 1964-1969

Associate Editors Richard K. Hughes, M.D., Los Angeles Marvin M. Kirsh, M.D., Ann Arbor

Timothy Takaro, M.D., Asheville, NC

Assistant Editors Hassan Najafi, M.D., Chicago

Richard M. Peters, M.D., Book Review Editor, Department of Surgery,

University Hospital, 225 Dickinson St, San Diego, CA 92103

Editorial Board John R. Benfield, M.D., Duarte, CA

Richard E. Clark, M.D., St. Louis Richard J. Cleveland, M.D., Boston Anthony R. C. Dobell, M.D., Montreal F. Henry Ellis, Jr., M.D., Boston

Thomas B. Ferguson, M.D., St. Louis G. Frank O. Tyers, M.D., Vancouver Nicholas T. Kouchoukos, M.D., Birmingham, Al. Andrew S. Wechsler, M.D., Durham Sidney Levitsky, M.D., Chicago

Administrative Editor leanne H. Tashian, Ann Arbor

Publisher Manager, Medical Journals Managing Editor Little, Brown and Company, Boston Nancy Megley Carmen D. Wiseman



ISSN 0003-4975



Company, 34 Beacon Street, Boston, MA 02106. All rights reserved. Except as authorized in the accompanying statement, no part of The Annals of Thoracic Surgery may be reproduced in any form or by any electronic or mechanical means, including information storage and retrieval systems, without the publisher's written permission. Subscription rates per year: United States and possessions \$44.50; Canada \$45.50; elsewhere \$47.50. Special rates for students, interns, and residents per year: United States and possessions \$34.50; Canada \$35.50; elsewhere \$37.50. Institutional rates per year: United States and possessions \$49.50; Canada \$50.50; elsewhere \$52.50. Single copies \$5.00 prepaid. Second-class postage paid at

Boston, MA, and at additional mailing

offices. Copyright © 1982 by The

Society of Thoracic Surgeons.

Published monthly by Little, Brown and

The appearance of the code at the bottom of the first page of an article in this journal indicates the copyright owner's consent that copies of the article may be made for personal or internal use, or for the personal or internal use of specific clients. This consent is given on the condition, however, that the copier pay the stated per-copy fee through the Copyright Clearance Center, Inc., for copying beyond that permitted by Sections 107 or 108 of the U.S. Copyright Law. This consent does not extend to other kinds of copying, such as copying for general distribution, for advertising or promotional purposes, for creating new collective works, or for resale. Beginning January 1, 1978, copying fees will be charged for material previously published in this journal according to fee rates on file with the Copyright Clearance Center, Inc. POSTMASTER: Send address changes to The Annals of Thoracic Surgery, 34 Beacon St, Boston, MA 02106.

Martin F. McKneally, M.D., Albany

Benson B. Roe, M.D., San Francisco

Will C. Sealy, M.D., Durham

E. Converse Peirce II, M.D., New York

Stanton P. Nolan, M.D., Charlottesville, VA

# NO 1 JULY 1982

- Original Articles 1 The Human Touch
  Anthony R. C. Dobell, M.D.
  - 6 The Subxiphoid Approach to Pericardial Disease Richard L. Prager, M.D., Charles H. Wilson, M.D., and Harvey W. Bender, M.D.
  - Blood Elastolytic Activity in Patients with Aortic Aneurysm Donald J. Cannon, Ph.D., and Raymond C. Read, M.D.
  - Porcine Cardiac Xenograft Valves: Analysis of Survival, Valve Failure, and Explantation Joseph M. Craver, M.D., Ellis L. Jones, M.D., Peter McKeown, M.D., B.S., David K. Bone, M.D., Charles R. Hatcher, Jr., M.D., and Michael Kandrach, P.A.
  - 22 The Clinical Life History of Explanted Prosthetic Heart Valves John P. Marbarger, Jr., M.D., and Richard E. Clark, M.D.
  - 34 Carcinoma of the Lung in Women Marvin M. Kirsh, M.D., Jeanne Tashian, M.A., and Herbert Sloan, M.D.
  - 40 Pericardiectomy: Current Indications, Concepts, and Results in a University Center J. I. Miller, M.D., K. A. Mansour, M.D., and C. R. Hatcher, Jr., M.D.
  - 46 Critical Pulmonary Stenosis in Infants Less than Three Months of Age: A Reappraisal of Closed Transventricular Pulmonary Valvotomy V. Srinivasan, M.D., Alan Konyer, M.D., John J. Broda, M.D., and S. Subramanian, M.D.
  - 51 The Hemodynamic Response to Dopamine and Nitroprusside following Right Atrium-Pulmonary Artery Bypass (Fontan Procedure) Donald B. Williams, M.D., Paul D. Kiernan, M.D., Hartzell V. Schaff, M.D., H. Michael Marsh, M.B., and Gordon K. Danielson, M.D.
  - 58 Functional and Metabolic Preservation of the Immature Myocardium with Verapamil following Global Ischemia Vaughn A. Starnes, M.D., John W. Hammon, Jr., M.D., Flavian M. Lupinetti, M.D., Richard D. Olson, Ph.D., Robert J. Boucek, Jr., M.D., and Harvey W. Bender, Jr., M.D.
  - 66 Clinical Staging and the Tendency of Malignant Pleural Mesotheliomas to Remain Localized Russell J. Nauta, M.D., Robert T. Osteen, M.D., Karen H. Antman, M.D., and J. Kenneth Koster, M.D.
  - 71 Control of Postcardiotomy Bleeding with PEEP William S. Hoffman, M.D., Donald N. Tomasello, M.D., and Horace MacVaugh, M.D.

- 74 Lung Transplantation in the Rat: I. Technique and Survival Klaas W. Marck, M.D., and Charles R. H. Wildevuur, M.D., Ph.D.
- 81 Lung Transplantation in the Rat: II. Lung Perfusion Scintigraphy in Normal and Left Lung-Transplanted Rats Klaas W. Marck, M.D., D. A. Piers, M.D., Ph.D., and Charles W. Wildevuur, M.D., Ph.D.
- How to Do It 89 Single Aortotomy for Multiple Aortocoronary Saphenous Vein Bypass Grafts Hossein Sadeghi, M.D., and Didier Morin, M.D.
  - 92 A New Method to Treat Fusiform Aneurysms of the Ascending Aorta Associated with Aortic Valve Disease: An Alternative to Radical Resection Francis Robicsek, M.D.
  - 95 Methylene Blue to Visualize Washed-out Coronary Arteries Benson B. Roe, M.D.
- Collective Review 96 Thromboembolic Complications of Current Cardiac Valvular Prostheses
  L. Henry Edmunds, Jr., M.D.
- Correspondence 107 Critical Coronary Artery Obstruction R. W. Landymore, M.D.
  - 107 Reply Sidney Levitsky, M.D.
  - 108 Tissue Valves C. Del Campo, M.D., F.R.C.S.(C)
- Review of Recent Books 109 Selected Topics in Cardiac Surgery, by V. Gallucci, R. M. Bini, and G. Thiene Frederick E. Wideman, M.D.
  - 109 Pediatric Cardiovascular Disease, edited by Mary Allen Engle, M.D. John A. Waldhausen, M.D.
  - 110 Critical Care Cardiology, edited by Charles Rackley, M.D. Joseph W. Rubin, M.D.
  - Announcements 21 Notice from the Southern Thoracic Surgical Association
    - 65 Notice from the American Board of Thoracic Surgery

# NO 2 AUGUST 1982

- Report 111 The Beijing Cardiothoracic Symposium
  Herbert Sloan, M.D., Jeanne Tashian, M.A., and Alfred H. F. Lui, M.D.
- Editorial 115 The Dilemma of the Ascending Aortic Aneurysm Henry T. Bahnson, M.D.

- Original Articles 117 The Ascending Aortic Aneurysm: Replacement or Repair?

  L. Egloff, M.D., M. Rothlin, M.D., J. Kugelmeier, M.D., Å. Senning, M.D., and M. Turina, M.D.
  - 125 Management of Ascending Aortic Aneurysm Complicating Coarctation of the Aorta Ramanathan Sampath, M.D., William N. O'Connor, M.D., Jacqueline A. Noonan, M.D., and Edward P. Todd, M.D., Ph.D.
  - 132 Circulatory Assistance with a Cardiac Allograft after Exclusion of the Canine Left Ventricle
    Peter A. Alivizatos, M.D., Albert J. Guerraty, M.D., and Richard R. Lower, M.D.
  - 138 Topical Cardiac Cooling by Recirculation: Comparison of a Closed System Using a Cooling Pad with an Open System Using a Topical Spray Franklin L. Rosenfeldt, M.D., F.R.C.S.E., and Malcolm Arnold, M.B., M.S., F.R.A.C.S.
  - 146 Assessment and Comparison of the Performance of Cardiac Valves Endre Bodnar, M.D., William H. Wain, Ph.D., and Steven Haberman, M.A.
  - Hypothermic Ischemic Arrest versus Hypothermic Potassium Cardioplegia in Human Beings
    M. A. Jacocks, M.D., B. N. Fowler, M.D., J. S. Chaffin, M.D.,
    E. Lowenstein, M.D., D. G. Lappas, M.D., G. M. Pohost, M.D.,
    C. A. Boucher, M.D., R. D. Okada, M.D., N. Hanna, B.S.,
    and W. M. Daggett, M.D., with the technical assistance of Jack Butler and Clara Balkas
  - Serial C-reactive Protein Measurements in Infective Complications following Cardiac Operation: Evaluation and Use in Monitoring Response to Therapy Adeeb T. M. Ghoneim, M.R.C.Path., John McGoldrick, F.I.M.L.T., and Marian I. Ionescu, M.D.
  - 176 Alterations in Pulmonary Function following Pneumonectomy for Bronchogenic Carcinoma
    Edward J. Dunn, M.D., Jose Hernandez, M.D., Harvey W. Bender, Jr., M.D., and Richard L. Prager, M.D.
  - 181 Upper Extremity Neuropathies following Median Sternotomy J. E. Morin, M.D., R. Long, M.D., M. G. Elleker, M.D., A. A. Eisen, M.D., E. Wynands, M.D., and S. Ralphs-Thibodeau, R.N.
  - Case Reports 186 Pseudoaneurysm of the Thoracic Aorta: A Late Complication of Umbilical Artery Catheterization
    Michael L. Wynn, M.D., Marshall Rowen, M.D., Ralph W. Rucker, M.D., Donald R. Sperling, M.D., and Alan B. Gazzaniga, M.D.

- 192 Strut Fracture and Disc Embolization of a Björk-Shiley Mitral Valve Prosthesis: Localization of Embolized Disc by Computerized Axial Tomography Alberto J. Larrieu, M.D., Eduardo Puglia, M.D., and Peter Allen, M.D.
- 196 Coronary Artery Spasm following Coronary Artery Revascularization R. H. Zeff, M.D., L. A. Iannone, M.D., C. Kongtahworn, M.D., T. M. Brown, M.D., D. F. Gordon, M.D., M. Benson, P.A., S. J. Phillips, M.D., and R. E. Alley, D.O.
- 201 Saphenous Vein Aortocoronary Bypass Graft in a Dog: Thirteen-Year Follow-up
  Akio Wakabayashi, M.D., and John E. Connolly, M.D.
- Note 204 Platelet Aggregation during and after Cardiopulmonary Bypass:

  Effect of Two Different Cardiotomy Filters

  J. Anthony Ware, M.D., Michael A. Scott, B.S., Janet K. Horak, M.T., and R. Thomas Solis, M.D.
- Thoracic Surgery Quiz 207 Questions

  Marvin M. Kirsh, M.D.
  - Collective Review 208 An Epitaph for Cavopulmonary Anastomosis Francis Robicsek, M.D.
- Thoracic Surgery Quiz 221 Answers
  Marvin M. Kirsh, M.D.
  - Correspondence 222 Plasma Vasopressin during Cardiopulmonary Bypass Kenneth M. Taylor, M.D., F.R.C.S.
    - 222 Scalene Node Biopsy Dov Weissberg, M.D.
    - 223 Aortoventriculoplasty Per G. Bjørnstad, M.D., and E. R. deVivie, M.D.
    - 223 Strut Snagging on Mitral Valve Prosthesis Suhayl S. Saleh, M.D.
    - 223 Reply Prof. J. B. Borman, F.R.C.S.E.
- Review of Recent Books 224 Manual of Cardiac Surgery, Vol 1, edited by Bradley J. Harlan, Albert Starr, M.D., and Fredric M. Harwin William Y. Moores, M.D.
  - 224 Cardiology Update 1981, edited by Elliot Rapaport, M.D. Larry W. Stephenson, M.D.

- Announcements 156 Notice from the Southern Thoracic Surgical Association
  - 180 Notice from the American Board of Thoracic Surgery

# NO 3 SEPTEMBER 1982

- Editorial 225 Surgery for Esophageal Motor Disorders
  Tom R. DeMeester, M.D.
- Original Articles 230 Reflux Control following Myotomy in Diffuse Esophageal Spasm
  Robert D. Henderson, M.B., F.R.C.S.(C), and Donald E. Ryder, M.D.
  - 237 Esophagectomy: Definitive Treatment for Esophageal Neuromotor Dysfunction Mark B. Orringer, M.D., and Jay S. Orringer, M.D.
  - Optimal Myocardial Protection with Fluosol Cardioplegia
    George J. Magovern, Jr., M.D., John T. Flaherty, M.D., Vincent L. Gott, M.D.,
    Bernadine H. Bulkley, M.D., and Timothy J. Gardner, M.D.
  - 258 A Modified Sugiura Procedure
    R. J. Ginsberg, M.D., P. F. Waters, M.D., R. A. Zeldin, M.D., E. H. Spratt, M.D.,
    B. Shandling, M.D., R. M. Stone, M.D., and S. Strasberg, M.D.
  - 265 Clinical Durability of the Pericardial Xenograft Valve: Ten Years' Experience with Mitral Replacement Marian I. Ionescu, M.D., Donald R. Smith, M.D., Syed S. Hasan, M.D., Muthiah Chidambaram, M.D., and Anand P. Tandon, M.D.
  - 278 Comparison of Roller Pump versus Pressurized Bag Administration of Potassium Cardioplegic Solution Frederick L. Grover, M.D., John G. Fewel, M.S., John J. Ghidoni, M.D., Edward V. Bennett, Jr., M.D., and J. Kent Trinkle, M.D.
  - 287 Early Open Radical Commissurotomy: Surgical Treatment of Choice for Mitral Stenosis
    John C. Laschinger, M.D., Joseph N. Cunningham, Jr., M.D.,
    F. Gregory Baumann, Ph.D., O. Wayne Isom, M.D., Frank P. Catinella, M.D.,
    Alan Mendelsohn, Peter X. Adams, M.D., and Frank C. Spencer, M.D.
  - 299 Intraoperative Detection of Spinal Cord Ischemia Using Somatosensory Cortical Evoked Potentials during Thoracic Aortic Occlusion John G. Coles, M.D., Gregory J. Wilson, M.D., Anders F. Sima, M.D., Petr Klement, D.V.M., and Gordon A. Tait, Ph.D.
  - 307 Effect of Sodium Nitroprusside during the Payback Period of Cardiopulmonary Bypass on the Incidence of Postoperative Arrhythmias Kit V. Arom, M.D., David M. Angaran, M.S., William G. Lindsay, M.D., William F. Northrup, M.D., and Demetre M. Nicoloff, M.D.

- 313 A New Simple Method for Intraoperative Reinfusion Marko Turina, M.D., and Max Lasczower, M.D.
- 318 Asymmetrical Myocardial Hypothermia during Hypothermic Cardioplegia R. Leighton Fisk, M.D., Ph.D., Daraius Ghaswalla, M.D., and Eric I. Guilbeau. Ph.D.
- Case Reports 324 Mediastinal and Osseous Lymphangiomatosis: Case Report and Review Michael A. Watts, Comdr. MC, USN, James A. Gibbons, Capt, MC, USN, and Benjamin L. Aaron, M.D.
  - 329 Surgical Correction of Congenital Tricuspid Stenosis Mikel D. Smith, M.D., Kiran B. Sagar, M.D., H. Page Mauck, M.D., Michael J. Cowley, M.D., and Richard R. Lower, M.D.
  - 333 Cardiac Tamponade Secondary to Chylopericardium following Cardiac Surgery: Case Report and Review of the Literature Daniel M. Rose, M.D., Stephen B. Colvin, M.D., Delores Danilowicz, M.D., and O. W. Isom, M.D.

# Classics in Thoracic

- Surgery 337 John H. Gibbon, Jr. Part I. The Development of the First Successful Heart-Lung Machine I. Donald Hill, M.D.
  - 342 Part II. Personal Reminiscences Anthony R. C. Dobell, M.D.
- Correspondence 348 Instrument to Create an Atrial Septal Defect José V. Garcia L., M.D.
  - 348 Reply Yasuo Morishita, M.D.
- Review of Recent Books 350 Thoracic and Cardiovascular Surgery: Continuing Education Review, by Edwin C. James, M.D., D. Paul Horan, M.D., David A. Browdie, M.D., George W. Iwen, M.D., and William H. Heydorn, M.D. Richard G. Fosburg, M.D.
  - Announcements 345 Program for the Twenty-ninth Annual Meeting of the Southern Thoracic Surgical Association
    - 264 Notice from the Southern Thoracic Surgical Association
    - 317 Notice from the American Board of Thoracic Surgery

# NO 4 OCTOBER 1982

Editorials 351 Profit and Loss in Coronary Artery Surgery Hugh H. Bentall, M.B., F.R.C.S.

- 353 Return to Work after Coronary Artery Bypass Grafting
  Albert Oberman, M.D., M.P.H., and John F. Finklea, M.D., D.P.H.
- Original Articles 356 Carinal Reconstruction
  Hermes C. Grillo, M.D.
  - 374 The Rehabilitation of Coronary Surgical Patients Harold V. Liddle, M.D., Robert Jensen, Ph.D., and Paul D. Clayton, Ph.D.
  - 383 Symptomatic Status and Pattern of Employment during a Five-Year Period following Myocardial Revascularization for Angina L. Guvendik, F.R.C.S., M. Rahan, and M. Yacoub, F.R.C.S.
  - 388 Surgical Treatment in Ebstein's Malformation Stephen Westaby, F.R.C.S., Robert B. Kar, M.D., John W. Kirklin, M.D., Albert L. Waldo, M.D., and Eugene H. Blackstone, M.D.
  - 396 Ebstein's Anomaly: Editorial Comments and Personal Observations Gordon K. Danielson, M.D.
  - 401 Acute Empyema in Children Treated by Open Thoracotomy and Decortication Porter Mayo, M.D., Sibu P. Saha, M.D., and Richard B. McElvein, M.D.
  - 408 Late Patency of the Internal Mammary Artery as a Coronary Bypass Conduit Hendrick B. Barner, M.D., Marc T. Swartz, B.A., J. Gerard Mudd, M.D., and Denis H. Tyras, M.D.
  - 413 Waterston Anastomosis in Two-Stage Correction of Severe Tetralogy of Fallot: Ten Years of Experience Gaetano Azzolina, M.D., Pier Antonio Russo, M.D., Giuseppe Maffei, M.D., and Antonino Marchese, M.D.
  - 422 Intrauterine Cardiothoracic Surgery: The Fetal Lamb Model Kevin Turley, M.D., Gus J. Vlahakes, M.D., Michael R. Harrison, M.D., Louis Messina, M.D., Frank Hanley, M.D., Paul N. Uhlig, M.D., and Paul A. Ebert, M.D.
  - 427 Unstable Angina Pectoris: Comparison with the National Cooperative Study Ellis L. Jones, M.D., Thadeus F. Waites, M.D., Joe M. Craver, M.D., David K. Bone, M.D., Charles R. Hatcher, Jr., M.D., and Tom Thompkins, P.A.
  - 435 Arrhythmia Prophylaxis Using Propranolol after Coronary Artery Surgery James B. Williams, M.D., Larry W. Stephenson, M.D., Fred D. Holford, M.D., Terry Langer, M.D., W. Bruce Dunkman, M.D., and Mark E. Josephson, M.D.
  - 439 Hyperkalemia Complicating Cardiopulmonary Bypass: Analysis of Risk Factors Donald O. Weber, M.D., and Michael D. Yarnoz, M.D.

- Case Reports 446 Mitral Annuloplasty in Endomyocardial Fibrosis:

  An Alternative to Valve Replacement

  A. E. Wood, F.R.C.S.(I), D. Boyle, F.R.C.P., M. D. O'Hara, M.R.C.Path., and I. Cleland, F.R.C.S.(E)
  - 452 Pulmonary Varices Associated with Mitral Valve Disease: A Case Report and Survey of the Literature Tsutomu Shida, M.D., Hidetaka Ohashi, M.D., Kazuo Nakamura, M.D., and Michinari Morimoto, M.D.
  - 457 Intraoperative Use of Nifedipine for Hemodynamic Collapse due to Coronary Artery Spasm following Myocardial Revascularization

    Gary S. Kopf, M.D., Arthur Riba, M.D., and Rubin Zito, M.D.
  - 461 The Flat Trachea: A Cause of Tracheal Obstruction and Its Surgical Management John A. Waldhausen, M.D., David Kastl, M.D., Michael A. Orsini, M.D., and George H. Conner, M.D.
  - 466 Subacute Bacterial Endocarditis and Complete Endocardial Cushion Defect Edward L. Bove, M.D., Rae-Ellen W. Kavey, M.D., Henry M. Sondheimer, M.D., and Frederick B. Parker, Jr., M.D.
- Thoracic Surgery Quiz 470 Questions
  Richard J. Cleveland, M.D.
  - How to Do It 471 An Improved Method for Collection of Shed Mediastinal Blood for Autotransfusion
    L. Dieter Voegele, M.D., Gabrielle Causby, C.C.R.N., Thomas Utsey, C.C.P., William H. Prioleau, Jr., M.D., and Peter Hairston, M.D.
    - 473 Median Sternotomy T Incision for Thymectomy in Myasthenia Gravis
      J. I. Miller, M.D., K. A. Mansour, M.D., and C. R. Hatcher, Jr., M.D.
    - Statement 475 Proposed Statement on Perfusionist Affairs
      The American Association for Thoracic Surgery and The Society
      of Thoracic Surgeons
- Thoracic Surgery Quiz 476 Answers
  Richard J. Cleveland, M.D.
  - Correspondence 477 Balanced Drainage System José F. T. da Rosa, M.D.
    - 477 Reply Richard B. McElvein, M.D.
    - 477 Intrapleural Bacillus Calmette-Guérin Administration James A. Bennett, Ph.D., and Martin F. McKneally, M.D., Ph.D.

- Review of Recent Books 478 Etiology and Morphogenesis of Congenital Heart Disease, edited by Richard Van Praagh and Atsuyoshi Takao Hillel Laks, M.D.
  - Announcements 382 Notice from the Southern Thoracic Surgical Association
    - 395 Notice from the American Board of Thoracic Surgery
    - 445 Notice from the American Board of Surgery

## NO 5 NOVEMBER 1982

- Tribute 479 Paul C. Samson, M.D., 1905–1982 Benson B. Roe, M.D.
- Editorial 480 Mitral Valve Replacement and Coronary Artery Bypass Grafting Robert B. Karp, M.D.
- Original Articles 482 Determinants of Operative Survival following Combined Mitral Valve
  Replacement and Coronary Revascularization
  Verdi J. DiSesa, M.D., Lawrence H. Cohn, M.D., John J. Collins, Jr., M.D.,
  J. Kenneth Koster, M.D., and Stephen VanDevanter, M.D.
  - 490 Flow in Coronary Artery Bypass Grafts to Totally and Partially Occluded Left Anterior Descending Coronary Arteries William H. Prioleau, Jr., M.D., Sandra Clark, R.N., C.C.P., Alan Gross, Ph.D., L. Dieter Voegele, M.D., and Peter Hairston, M.D.
  - 493 Percutaneous Transluminal Coronary Angioplasty: Role of the Surgeon Ellis L. Jones, M.D., Joe M. Craver, M.D., Andreas R. Grüntzig, M.D., Spencer B. King, III, M.D., John S. Douglas, M.D., David K. Bone, M.D., Robert G. Guyton, M.D., and Charles R. Hatcher, Jr., M.D.
  - 504 Preliminary Experience with Intraoperative Transluminal Balloon-Catheter Dilation and Coronary Artery Bypass Grafting for the Treatment of Symptomatic Diffuse Coronary Artery Disease Arthur J. Roberts, M.D., Robert L. Feldman, M.D., C. Richard Conti, M.D., John J. Selby, M.D., Claude LaBrosse, M.D., Daniel G. Knauf, M.D., James A. Alexander, M.D., William D. Watson, M.D., and Carl J. Pepine, M.D.
  - 515 Implantation of the Automatic Defibrillator: The Subxiphoid Approach Levi Watkins, Jr., M.D., M. Mirowski, M.D., Morton M. Mower, M.D., Philip R. Reid, M.D., Paul Freund, P.A., Andra Thomas, R.N., Myron L. Weisfeldt, M.D., and Vincent L. Gott, M.D.
  - 521 Treatment of Esophageal Carcinoma by Combined Preoperative Chemotherapy Manjit S. Bains, M.D., David P. Kelsen, M.D., Edward J. Beattie, Jr., M.D., and Nael Martini, M.D.

- 529 Vascular Anastomoses in Growing Vessels: The Use of Absorbable Sutures John L. Myers, M.D., John A. Waldhausen, M.D., Walter E. Pae, Jr., M.D., Arthur B. Abt, M.D., G. Allen Prophet, B.S., and William S. Pierce, M.D.
- 538 Extended Endocardial Resection for the Treatment of Ventricular Tachycardia and Ventricular Fibrillation John M. Moran, M.D., Richard F. Kehoe, M.D., Jerod M. Loeb, Ph.D., Peter R. Lichtenthal, M.D., John H. Sanders, Jr., M.D., and Lawrence L. Michaelis, M.D.
- 553 The Value of Radiographic and Computed Tomography in the Staging of Lung Carcinoma
  Joseph W. Lewis, Jr., M.D., Beatrice L. Madrazo, M.D.,
  Steven C. Gross, M.D., William R. Eyler, M.D.,
  Donald J. Magilligan, Jr., M.D., Paul A. Kvale, M.D., and Robert A. Rosen
- 559 Coronary Artery Bypass in Women: Long-term Survival Duncan A. Killen, M.D., William A. Reed, M.D., Malcolm Arnold, M.D., Ben D. McCallister, M.D., and Hubert H. Bell, M.D.
- 564 One-Lung High-Frequency Ventilation for Tracheoplasty and Bronchoplasty: A New Technique Nabil El-Baz, M.D., Robert Jensik, M.D., L. Penfield Faber, M.D., and Richard S. Faro, M.D.
- 572 Lateral Thoracotomy and One-Lung Anesthesia in Patients with Morbid Obesity
  David D. Oakes, M.D., Roy B. Cohn, M.D., Jay B. Brodsky, M.D.,
  Ronald C. Merrell, M.D., and John P. Sherck, M.D.
- Case Reports 581 Pulmonary Sequestration Causing Congestive Heart Failure in Infancy:
  A Report of Two Cases and Review of the Literature
  Marc M. Levine, M.D., Dov B. Nudel, M.D., Norman Gootman, M.D.,
  Allan Wolpowitz, M.D., and B. George Wisoff, M.D.
  - 586 Neointimal Obstruction of Carpentier-Edwards Valved Conduit in Two Patients with Modified Fontan Procedure Serafin Y. DeLeon, M.D., Farouk S. Idriss, M.D., Michel N. Ilbawi, M.D., Hassan Rastegar, M.D., Alexander J. Muster, M.D., and Milton H. Paul, M.D.
  - 590 Successful Rastelli Operation in Infant with Complete Transition of Great Arteries, Levoposition of Aorta, and Subaortic Ventricular Septal Defect Hikaru Matsuda, M.D., Joong Woong Kang, M.D., Tetsuo Kido, M.D., Shinichiro Miyoshi, M.D., Masato Ikeda, M.D., Yasuo Matsuda, M.D., and Toyohiro Izukura, M.D.
- Correspondence 594 Correction of Complete Endocardial Cushion Defect Hiroji Imamura, M.D., and Shigeyuki Takeuchi, M.D.

- 594 Atrial Pacing Nicholas P. D. Smyth, M.D.
- 595 Reply Diego A. Bognolo, M.D.
- 595 Intrauterine Surgery William V. Dolan, M.D.
- Review of Recent Books 604 Cardiology 1981, edited by William C. Roberts, M.D., Dean T. Mason, M.D., Mary A. Engle, M.D., and Lawrence H. Cohn, M.D. Walter S. Henly, M.D.
  - Announcements 596 Seventeenth Postgraduate Program, The Society of Thoracic Surgeons
    - 598 Program for the Nineteenth Annual Meeting of The Society of Thoracic Surgeons
    - 520 Notice from the American Board of Thoracic Surgery
    - 571 Notice from The American Board of Surgery

# NO 6 DECEMBER 1982

- Editorial 607 Postoperative Hemorrhage after Cardiopulmonary Bypass Noel L. Mills, M.D.
- Original Articles 608 Failure of Positive End-Expiratory Pressure to Decrease Postoperative Bleeding after Cardiac Surgery
  A. M. Zurick, M.D., J. Urzua, M.D., M. Ghattas, M.D.,
  D. M. Cosgrove, M.D., F. G. Estafanous, M.D., and R. Greenstreet, Ph.D.
  - 612 Clinical and Hemodynamic Results with the Carpentier-Edwards Porcine Bioprosthesis Conrad Pelletier, M.D., Bernard R. Chaitman, M.D., Richard Baillot, M.D., Pere Guiteras Val, M.D., Raoul Bonan, M.D., and Ihor Dyrda, M.D.
  - in 700 Patients

    Michael T. Janusz, M.D., F.R.C.S.(C), W. R. Eric Jamieson, M.D., F.R.C.S.(C),
    Peter Allen, M.D., F.R.C.S.(C), A. Ian Munro, M.D., F.R.C.S.(C),
    Robert T. Miyagishima, M.D., F.R.C.S.(C), Hernando Tutassura, M.D., F.R.C.S.(C),
    Lawrence H. Burr, M.D., F.R.C.S.(C), Alfred N. Gerein, M.D., F.R.C.S.(C),
    and G. Frank O. Tyers, M.D., F.R.C.S.(C)
  - 634 Bronchial Carcinoma and the Lymphatic Sump: The Importance of Bronchoscopic Findings Gordon F. Murray, M.D., Ormond C. Mendes, M.D., and Benson R. Wilcox, M.D.

625 Experience with the Carpentier-Edwards Porcine Valve Prosthesis

- 640 A Simplified Approach to the Repair of Pediatric Pectus Deformities Conrad W. Wesselhoeft, Jr., M.D., and Frank G. DeLuca, M.D.
- 647 Retrograde Coronary Sinus Perfusion: A Safe Alternative for Ensuring Cardioplegic Delivery in Aortic Valve Surgery
  Philippe Menasché, M.D., Suzanne Kural, M.D., Michel Fauchet, M.D., Anne Lavergne, M.D., Pierre Commin, M.D., Michel Bercot, M.D., Bernard Touchot, M.D., Georges Georgiopoulos, M.D., and Armand Piwnica, M.D.
- 659 Clinical Results of Cardiopulmonary Bypass with Selective Cerebral Perfusion for Aneurysm of the Ascending Aorta and the Aortic Arch Yasuhiro Soma, M.D., Kozo Kawada, M.D., Nobuatsu Kono, M.D., Hiroji Imamura, M.D., Ryohei Yotsu, M.D., Shigeto Odagiri, M.D., and Tadashi Inoue, M.D.
- 664 Initial and Long-term Results in the Management of Primary Chest Wall Neoplasms Geoffrey M. Graeber, M.D., Lt Col; Robert J. Snyder, M.D., Capt; Arthur W. Fleming, M.D., Col; Harold D. Head, M.D., Lt Col; Frederick C. Lough, M.D., Maj; John S. Parker, M.D., Lt Col; Rostik Zajtchuk, M.D., Col; and Walter H. Brott, M.D., Col; All MC, USA
- 674 Clinical Comparison of Hetastarch and Albumin in Postoperative Cardiac Patients

  James T. Diehl, M.D., J. Lancelot Lester, III, M.D., and Delos M. Cosgrove, M.D.
- 680 Hetastarch as a Prime for Cardiopulmonary Bypass
  David A. Palanzo, B.S., C.P., Grant V. S. Parr, M.D., Anthony P. Bull, M.D.,
  Dennis R. Williams, C.C.P., Martin J. O'Neill, M.D.,
  and John A. Waldhausen, M.D.
- 684 Bronchogenic Carcinoma with Chest Wall Invasion: Factors Affecting Survival following en Bloc Resection
  Jeffrey M. Piehler, M.D., Peter C. Pairolero, M.D., Louis H. Weiland, M.D., Kenneth P. Offord, M.A., W. Spencer Payne, M.D., and Philip E. Bernatz, M.D.
- The Value of Adjuvant Radiotherapy in Pulmonary and Chest Wall Resection for Bronchogenic Carcinoma
   G. A. Patterson, M.D., R. Ilves, M.D., R. J. Ginsberg, M.D.,
   T. R. J. Todd, M.D., and F. G. Pearson, M.D.
- Case Reports 698 Severe Supravalvular Aortic Stenosis: Successful Surgical Correction by Extended Aortoplasty
  Joseph M. Graham, M.D., Gerald M. Lawrie, M.D., M. Eid Fawzy, M.D., and Michael E. DeBakey, M.D.

- 702 Acute Carcinoid Syndrome: A Complication of Flexible Fiberoptic Bronchoscopy Muthiah Sukumaran, M.D., Zelda S. Wilkinson, M.D., and Lynn Christianson, M.D.
- 706 Björk-Shiley Leaflet Impairment in an Ascending Aortic Conduit Due to Extrinsic Compression by a False Aneurysm Thomas A. Orszulak, M.D., Ian P. Clements, M.D., and John H. Tinker, M.D.
- How to Do It 710 An Improved de Vega Tricuspid Annuloplasty
  Eisaburo Imamura, M.D., Hitoshi Ohteki, M.D., and Hitoshi Koyanagi, M.D.
  - Closure of the Right Atrioventricular Valve in the Modified Fontan Operation for Univentricular Heart
     L. Núñez, M.D., M. Gil Aguado, M.D., D. Celemín, M.D., and J. L. Larrea, M.D.
- Current Review 716 Univentricular Heart: Can We Alter the Natural History?

  Antonio Corno, M.D., Anton E. Becker, M.D., Anton H. K. Bulterijs,
  Jan Lam, M.D., Aagje Nijveld, M.D., Jaap L. Schuller, M.D.,
  and Carlo Marcelletti, M.D.
- Thoracic Surgery Quiz 727 Questions
  - Correspondence 728 Balanced Postpneumonectomy Drainage System Edward V. Bennett, Jr., M.D.
    - 729 Reply Richard B. McElvein, M.D.
    - 729 Recertification W. M. Pitt Fennell, M.B., Ch.B., F.R.C.S.
- Thoracic Surgery Quiz 730 Answers
- Review of Recent Books 731 Medical and Surgical Problems of the Esophagus, edited by S. Stipa, R. H. R. Belsey, and A. Moraldi David D. Oakes, M.D.
  - Indexes to Volume 34 732 Author Index
    - 735 Subject Index
    - Announcements 646 Notice from the American Board of Thoracic Surgery
      - 691 Notice from the American Board of Surgery, Inc.

